

**NARASARAOPETA ENGINEERING COLLEGE: NARASARAOPET
(AUTONOMOUS)**

DEPARTMENT OF CSE (ARTIFICIAL INTELLIGENCE)




CERTIFICATE

This is to certify that the project entitled "REAL-TIME FACIAL EXPRESSION RECOGNITION" is a bonafide work done by "S. Asritha (20471A4354), G. Sai Saahithi (20471A4314), B. Venkata Akhila (21475A4303)" in partial fulfilment of the requirements for the award of the degree of the **BACHELOR OF TECHNOLOGY** in the Department of **CSE (ARTIFICIAL INTELLIGENCE)** during the academic year 2023 - 2024.


PROJECT GUIDE

Mrs. P. Vijaya Lakshmi M. Tech.
Assistant Professor


PROJECT COORDINATOR

Mr. K. Jaya Prakash M. Tech (Ph. D.)
Assistant Professor



HEAD OF THE DEPARTMENT

Dr. B. Jhansi Vazram M. Tech, Ph. D.
Professor & Head
Professor & Head
Dept. of IT & CSE (AI)


EXTERNAL EXAMINER

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DEPARTMENT OF CSE (ARTIFICIAL INTELLIGENCE)



CERTIFICATE

This is to certify that the project entitled "DEEP LEARNING FOR MALARIA DIAGNOSIS" is a bonafide work done by "Sk. Lateef (20471A4353), D. Yogendra babu (20471A4311), K. Dinesh (20471A4330)" in partial fulfilment of the requirements for the award of the degree of the **BACHELOR OF TECHNOLOGY** in the Department of **CSE (ARTIFICIAL INTELLIGENCE)** during the academic year 2023 - 2024.


PROJECT GUIDE

Mr. U. Vijay Kumar M.Tech., (Ph. D).
Asst Professor


PROJECT COORDINATOR

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CERTIFICATE

This is to certify that the project entitled "DETECTION OF PNEUMONIA BY USING CONVOLUTIONAL NEURALNETWORKS IN DEEP LEARNING" is a bonafide work done by "V. Santosh Kumar (20471A4358), M. Sriram (20471A4331), Sk. Nadeem (21475A4304), T. Sai Vamsi (21475A4301)" in partial fulfilment of the requirements for the award of the degree of the BACHELOR OF TECHNOLOGY in the Department of CSE (ARTIFICIAL INTELLIGENCE) during the academic year 2023 - 2024.


PROJECT GUIDE

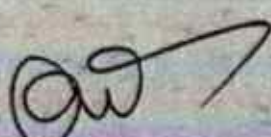
Mr. M. Rama Krishna Reddy M. Tech., (Ph.D)

Asst. Professor


HEAD OF THE DEPARTMENT

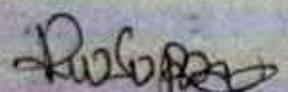
Dr. B. Jhansi Vazram M. Tech, Ph.D


Professor & Head
Professor & Head
Dept. of IT & CSE (AI)


PROJECT COORDINATOR

Mr. K. Jaya Prakash M. Tech (Ph.D)

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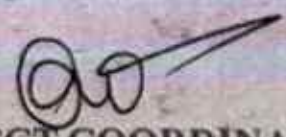


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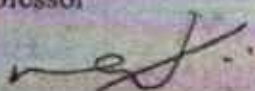
This is to certify that the project entitled "REAL TIME AIR QUALITY INDEX ANALYSIS AND PREDICTION USING MACHINE LEARNING ALGORITHMS" is a bonafide work done by "G. N. Vaishnavi (20471A4318), G. D. Kusuma (20471A4317), T. Usha Rani (20471A4356)" in partial fulfilment of the requirements for the award of the degree of the BACHELOR OF TECHNOLOGY in the Department of CSE (ARTIFICIAL INTELLIGENCE) during the academic year 2023 - 2024.


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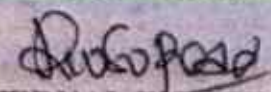
Mr. T. V. Manohar M. Tech
Asst. Professor


PROJECT COORDINATOR

Mr. K. Jaya Prakash M. Tech (Ph. D.)
Asst. Professor


HEAD OF THE DEPARTMENT

Dr. B. Jhansi Vazram M. Tech, Ph. D.
Professor & Head


EXTERNAL EXAMINER

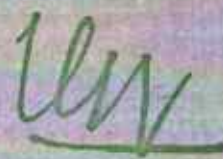
Professor & Head
Dept. of IT & CSE (AI)

NARASARAOPETA ENGINEERING COLLEGE VIVA VOICE DATE: 10.05.2024

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DEPARTMENT OF CSE (ARTIFICIAL INTELLIGENCE)



This is to certify that the project entitled "RED WINE QUALITY PREDICTION USING MACHINE LEARNING" is a bonafide work done by "D. Shiva Sankar (20471A4309), M. Lokesh (20471A4332), M. Mallikarjuna (20471A4334)" in partial fulfilment of the requirements for the award of the degree of the **BACHELOR OF TECHNOLOGY** in the Department of **CSE (ARTIFICIAL INTELLIGENCE)** during the academic year 2023 - 2024.

PROJECT GUIDE

Dr. B. Jhansi Vazram M.Tech., Ph.D.
Professor & Head

PROJECT COORDINATOR

Mr. K. Jaya Prakash M.Tech., Ph.D.
Asst. Professor

HEAD OF THE DEPARTMENT

Dr. B. Jhansi Vazram M.Tech., Ph.D.
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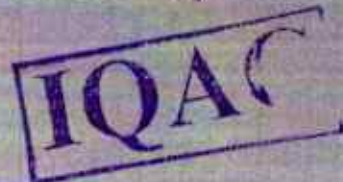
EXTERNAL EXAMINER

Professor & Head

Dept. of IT & CSE (AI)

**NARASARAOPETA ENGINEERING COLLEGE
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NARASARAOPET - 522 601, Palnadu Dist., X Ra Voce Date:



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NARASARAOPETA ENGINEERING COLLEGE: NARASARAOPET
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DEPARTMENT OF CSE (ARTIFICIAL INTELLIGENCE)



CERTIFICATE

This is to certify that the main project entitled "SIGN LANGUAGE DETECTION USING MACHINE LEARNING" is a bonafide work done by "M. Lakshmi Madhuri (20471A4336), Ch. Shanmukhi (20471A4307), T. Vyshnavi Devi (20471A4355)" in partial fulfillment of the requirements for the award of the degree of BACHELOR OF TECHNOLOGY in the Department of CSE (ARTIFICIAL INTELLIGENCE) during 2023-2024.

PROJECT GUIDE

Mr. K. Jaya Prakash M. Tech. (Ph.D)
Assistant Professor

PROJECT CO-ORDINATOR

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DEPARTMENT OF CSE (ARTIFICIAL INTELLIGENCE)



CERTIFICATE

This is to certify that the project that is entitled with the name "AUTOMATIC LICENSE NUMBER PLATE RECOGNITION SYSTEM USING DEEP LEARNING" is a bonafide work done by the team K. ESWAR CHARAN ROHITH (20471A4328), I. KRISHNA SAI RAM (20471A4321), J. YASWANTH ABHISHEK VARMA (20471A4322), T. PRASANTH KUMAR (20471A4357) in partial fulfillment of the requirements for the award of the degree of BACHELOR OF TECHNOLOGY in the Department of CSE (ARTIFICIAL INTELLIGENCE) during 2023-2024.

P. Neelima
PROJECT GUIDE

Mrs. P. Neelima, M.Tech.,
Asst. Professor

K. Jaya Prakash
PROJECT COORDINATOR

Mr. K. Jaya Prakash, M.Tech. (Ph.D.),
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B. Jhansi Vazram
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R. Subramanian
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V. Jayaram
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PROJECT GUIDE

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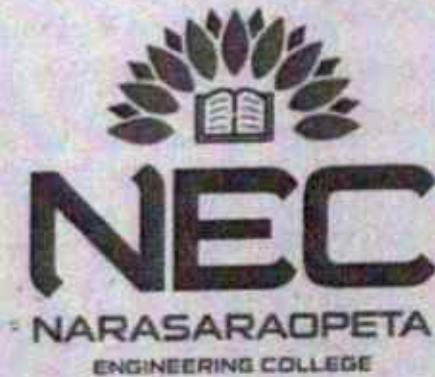
EXTERNAL EXAMINER

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DEPARTMENT OF CSE (ARTIFICIAL INTELLIGENCE)



CERTIFICATE

This is to certify that the project that is entitled with the name "SKIN DISEASE DETECTION USING DEEP LEARNING" is a bonafide work done by the team "B. Lakshman Rao (20471A4305), I. Mastan Vali (20471A4319), P. Satish Kumar (20471A4347)" in partial fulfillment of the requirements for the award of the degree of BACHELOR OF TECHNOLOGY in the Department of CSE, (ARTIFICIAL INTELLIGENCE) during the academic year 2023-2024.

PROJECT GUIDE
K. Jaya Prakash, M. Tech, (Ph. D)
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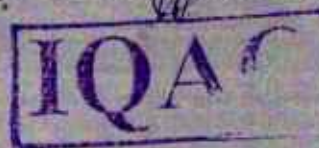
PROJECT CO-ORDINATOR
K. Jaya Prakash, M. Tech, (Ph. D)
Assistant Professor

HEAD OF THE DEPARTMENT
Dr. B. JHANSI VAZRAM, M. Tech, Ph. D
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Viva voce Date:



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PROJECT GUIDE
K. Jaya Prakash, M.Tech, (Ph.D)
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PROJECT CO-ORDINATOR
K. Jaya Prakash, M.Tech, (Ph.D)
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EXTERNAL EXAMINER

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NARASARAOPETA ENGINEERING COLLEGE: NARASARAOPET
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PROJECT GUIDE

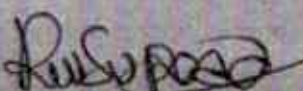
Dr. B. Jhansi Vazram M.Tech., Ph.D.
Professor & Head


PROJECT COORDINATOR

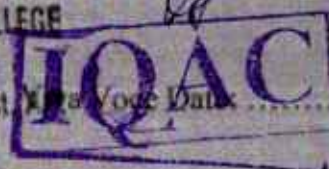
Mr. K. Jaya Prakash M.Tech., Ph.D.
Asst. Professor



HEAD OF THE DEPARTMENT

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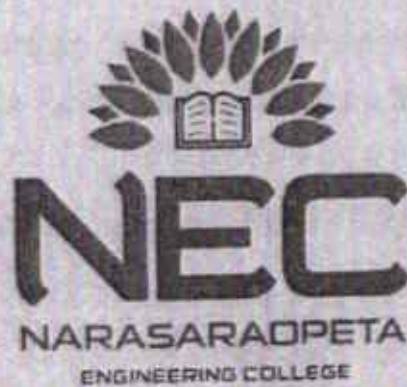



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DEPARTMENT OF CSE (ARTIFICIAL INTELLIGENCE)



CERTIFICATE

This is to certify that the project entitled "STOCK PRICE PREDICTION USING MACHINE LEARNING" is a bonafide work done by "N. JAYALASHMAN REDDY (20471A4338), G. MANIKANTA SAIRAM (20471A4313), SK. KHAJA MOHINUDDIN (20471A4352)" in partial fulfilment of the requirements for the award of the degree of the BACHELOR OF TECHNOLOGY in the Department of CSE (ARTIFICIAL INTELLIGENCE) during the academic year 2023 - 2024.

PROJECT GUIDE

SK. MOHAMMED JANY M. Tech. (Ph. D)
Assistant Professor

HEAD OF THE DEPARTMENT

Dr. B. Jhansi Vazram M. Tech. Ph. D
Professor & Head
Dept. of IT & CSE (AI)

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PROJECT COORDINATOR

Mr. K. Jaya Prakash M. Tech
Assistant Professor

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DEPARTMENT OF CSE (ARTIFICIAL INTELLIGENCE)



CERTIFICATE

This is to certify that the main project entitled "SIGN LANGUAGE DETECTION USING MACHINE LEARNING" is a bonafide work done by "M. Lakshmi Madhuri (20471A4336), Ch. Shanmukhi (20471A4307), T. Vyshnavi Devi (20471A4355)" in partial fulfillment of the requirements for the award of the degree of **BACHELOR OF TECHNOLOGY** in the Department of CSE (ARTIFICIAL INTELLIGENCE) during 2023-2024.

PROJECT GUIDE

Mr. K. Jaya Prakash M. Tech. (Ph.D)
Assistant Professor

PROJECT CO-ORDINATOR

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Assistant Professor

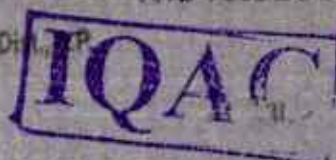
HEAD OF THE DEPARTMENT

Dr. B. Jhansi Vazram M. Tech., Ph.D
Professor & Head

EXTERNAL EXAMINER

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View Date:



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(AUTONOMOUS)

DEPARTMENT OF CSE (ARTIFICIAL INTELLIGENCE)



CERTIFICATE

This is to certify that the project entitled "Drowsiness Detection using Machine Learning" is a bonafide work done by "A. Tejaswini (20471A4301), I. Meghana (20471A4320), SK. Jabeen Sultana (20471A4351)" in partial fulfilment of the requirements for the award of the degree of the **BACHELOR OF TECHNOLOGY** in the Department of **CSE (ARTIFICIAL INTELLIGENCE)** during 2023 - 2024.

PROJECT GUIDE

Dr. B. Jhansi Vazram, M.Tech., Ph.D.
Professor & Head

HEAD OF THE DEPARTMENT

Dr. B. Jhansi Vazram M.Tech., Ph.D.
Professor & Head
Professor & Head
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PROJECT COORDINATOR

Mr. K. Jaya Prakash M.Tech., (Ph.D.)
Asst. Professor

EXTERNAL EXAMINER

NARASARAOPETA ENGINEERING COLLEGE Date: 10-05-2024

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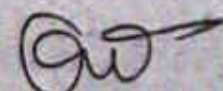


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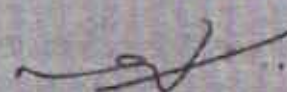
This is to certify that the project report entitled "RELIABLE AND FAST SOURCE LOCATION ESTIMATION USING MACHINE LEARNING IN EARTHQUAKE EARLY WARNING (EEW)" is a bonafide work done by the team "O. Bala Sarath Chandra (20471A4341), S. Venkata Bramha Teja (20471A4362), SK. Subhani (20471A4363)" in partial fulfilment of requirements for the award of the degree of BACHELOR OF TECHNOLOGY in the department of CSE(ARTIFICIAL INTELLIGENCE) of NARASARAOPETA ENGINEERING COLLEGE, NARASARAOPET during the academic year 2023 - 2024.


PROJECT GUIDE

Mrs. P. Vijaya Lakshmi M. Tech
Assistant Professor


PROJECT CO-ORDINATOR

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Assistant Professor


HEAD OF THE DEPARTMENT

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Professor and Head


EXTERNAL EXAMINER

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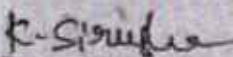
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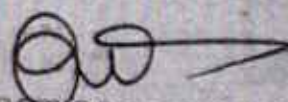
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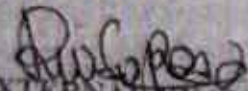
CERTIFICATE

This is to certify that the project that is entitled with the name "ENSEMBLE MACHINE LEARNING TECHNIQUES FOR EARLY DETECTION OF PHISHING WEBSITES" is a bonafide work done by the team D.NITHISH (20471A4312), A. LOKESH (20471A4302), D.MAHENDRA (20471A4308), M.NARASIMHARAO (21475A4306), in partial fulfillment of the requirements for the award of the degree of BACHELOR OF TECHNOLOGY in the Department of CSE (ARTIFICIAL INTELLIGENCE) during the academic year 2023 - 2024.



PROJECT GUIDE
Mrs. K. Sireesha M.Tech.
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PROJECT COORDINATOR
Mr. K. Jaya Prakash M.Tech., (Ph. D.)
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HEAD OF THE DEPARTMENT
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EXTERNAL EXAMINER

Professor & Head
Dept. of IT & CSE (AI)
NARASARAOPETA ENGINEERING COLLEGE
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NARASARAOPET - 522 601, Palnadu Dist., A.P.


Viva Voce Date




PRINCIPAL
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NARASARAOPET - 522 601
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NARASARAOPETA ENGINEERING COLLEGE: NARASARAOPET
(AUTONOMOUS)

DEPARTMENT OF CSE (ARTIFICIAL INTELLIGENCE)



CERTIFICATE

This is to certify that the project entitled "PREDICTION OF DISSOLVED OXYGEN IN AQUACULTURE PONDS USING LSTM AND GRU" is a bonafide work done by "J. Ramya (20471A4325), V.V.L. Anusha (20471A4360), K. Gruhalakshmi (20471A4327), R. Sai Vyshnavi (20471A4349)" in partial fulfilment of the requirements for the award of the degree of the BACHELOR OF TECHNOLOGY in the Department of CSE (ARTIFICIAL INTELLIGENCE) during 2023 - 2024.


PROJECT GUIDE

Mrs. P. Santhi M. Tech
Asst. Professor


PROJECT COORDINATOR

Mr. K. Jaya Prakash M. Tech., (Ph. D)
Asst. Professor


HEAD OF THE DEPARTMENT

Dr. B. Jhansi Vazram M. Tech., Ph. D
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Professor & Head
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NARASARAOPETA ENGINEERING COLLEGE: NARASARAOPET
(AUTONOMOUS)

DEPARTMENT OF CSE (ARTIFICIAL INTELLIGENCE)



CERTIFICATE

This is to certify that the project entitled "HAND WRITTEN DIGIT RECOGNITION USING DEEP LEARNING" is a bonafide work done by "P. Jaya Lakshmi (20471A4348), S. Rajini (20471A4350), Ch. Midhula Sri (20471A4361)" in partial fulfillment of the requirements for the award of the degree of the **BACHELOR OF TECHNOLOGY** in the Department of **CSE (ARTIFICIAL INTELLIGENCE)** during the academic year 2023 - 2024.

P. Neelima
PROJECT GUIDE

Mrs. P. Neelima M. Tech
Assistant Professor

[Signature]
PROJECT COORDINATOR

Mr. K. Jaya Prakash M. Tech (Ph. D.)
Assistant Professor

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HEAD OF THE DEPARTMENT

Dr. B. Jhansi Vazrati M. Tech, Ph. D.
Professor & Head
Professor & Head
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EXTERNAL EXAMINER

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Viva Voce Date: 10/07/24.....



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NARASARAOPETA ENGINEERING COLLEGE: NARASARAOPET
(AUTONOMOUS)
DEPARTMENT OF CSE (ARTIFICIAL INTELLIGENCE)

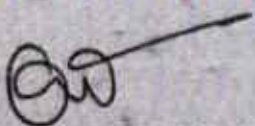


CERTIFICATE


This is to certify that the project entitled "EARTHQUAKE PREDICTION USING MACHINE LEARNING" is a bonafide work done by "B. Venkata Sai Akash (20471A4306), M. Somendra (20471A4335), G. Siva Sankar (20471A4315)" in partial fulfilment of the requirements for the award of the degree of the BACHELOR OF TECHNOLOGY in the Department of CSE (ARTIFICIAL INTELLIGENCE) during 2023 - 2024.


PROJECT GUIDE

Mrs. P. Santhi M. Tech


PROJECT COORDINATOR

Mr. K. Jaya Prakash M. Tech, (Ph. D.)


HEAD OF THE DEPARTMENT

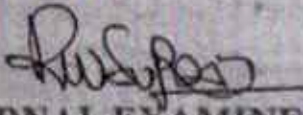
Dr. B. Jhansi Vazrathi M. Tech, Ph. D.
Professor & Head

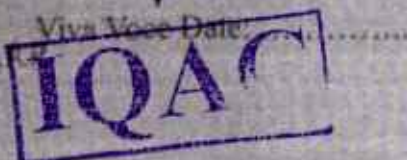
Dept. of IT & CSE (AI)


NARASARAOPETA ENGINEERING COLLEGE

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NARASARAOPET - 522 601, Palnadu Dist.


EXTERNAL EXAMINER




PRINCIPAL

NARASARAOPETA ENGINEERING COLLEGE
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NARASARAOPET - 522 601
Guntur (Dist.), A.P.

Project
CIVIL

NARASARAOPETAENGINEERINGCOLLEGE: NARASARAOPET
(AUTONOMOUS)

DEPARTMENT OF CIVIL ENGINEERING

BONAFIDE CERTIFICATE

This is to certify that the project work entitled
**USE OF DEMOLISHED CONCRETE WASTE IN PARTIAL
REPLACEMENT OF COARSE AGGREGATE IN CONCRETE**

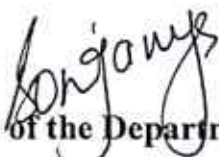
Submitted by

Mr. R.CHINNA AJAY	20471A0141
Mr. K.ISSAKU	20471A0121
Mr. N.PRAKASH	20471A0132
Mr. CH.SATHISH	20471A0106
Mr. O.SRINIVASARAO	20471A0133

In the partial fulfilment of requirements for the award of the degree of Bachelor of technology in "Civil Engineering" of the NARASARAOPETA ENGINEERING COLLEGE(Autonomous), NARASARAOPET, during the year 2020-2024.


Project Guide

Mr. SK.SYDHA ., M.Tech. (Ph.D)
ASSISTANT PROFESSOR


Head of the Department

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HEAD OF THE DEPARTMENT
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NARASARAOPET - 522 601





EXTERNAL EXAMINER


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DEPARTMENT OF CIVIL ENGINEERING

BONAFIDE CERTIFICATE

This is to certify that the project work entitled

**PARTIAL REPLACEMENT OF COARSE AGGREGATE BY
WASTE BRICK IN CONCRETE**

Submitted By

ANAGALAKUDITI ABHI	20471A0161
CHALLA JAGAN	20471A0167
K. MAHESH BABU	20471A0175
SHAIK DACHEPALLI KHADAR NAZEER	20471A0189

In partial fulfillment of the requirement for the award of the degree of Bachelor of Technology in **Civil Engineering** of the **NARASARAOPETA ENGINEERING COLLEGE, NARASARAOPET**, during the year **2023-2024**.



Project Guide

Mr. K. ANIL KUMAR, M.Tech., (Ph.D)
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Head of the Department

Dr. P. NAGA SOWJANYA, M.Tech., Ph.D.
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EXTERNAL EXAMINER



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NARASARAOPETAENGINEERING COLLEGE (AUTONOMOUS)



DEPARTMENT OF CIVIL ENGINEERING
CERTIFICATE

This is to certify that the project work entitled

**A STUDY ON CHARACTERISTICS STRENGTH OF HIGH
PERFORMANCE CONCRETE OF M80 BY PARTIAL REPLACEMENT OF
CEMENT AND SAND WITH FLYASH AND ROBOSAND**

Submitted By

BOJJA KEJIYA	21475A0108
SHAIK SHARMILA	21475A0106
BODDETI HEPSIBA	21475A0105
KASIMALLA MAHESH BABU	20471A0176
PRATHIPATI SIVA NAGESWARARAO	20471A0188

In partial fulfillment of requirement for the award of the degree of Bachelor of Technology in the **Department of Civil Engineering** from NARASARAOPETA ENGINEERING COLLEGE, NARASARAOPET, during the year 2023-2024.

Project Guide

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DEPARTMENT OF CIVIL ENGINEERING

BONAFIDE CERTIFICATE

This is to certify that the project work entitled

APPLICATION OF GIS IN WATER SUPPLY MANAGEMENT
NETWORK


Submitted By

SK. YASIN	21475A0109
K. SAIDABABU	21475A0112
V. RANJITH NAYAK	21475A0115
CH. VENKATESWARLU	21475A0118
S. MURALI	21475A0124

In partial fulfilment of requirement for the award of the degree of Bachelor of Technology in the Department of Civil Engineering of the NARASARAOPETA ENGINEERING COLLEGE, NARASARAOPET, during the year 2023-2024.


Project Guide

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DEPARTMENT OF CIVIL ENGINEERING

This is to certify that the project work entitled

PLANNING AND EXECUTION OF A BUILDING WORKS

Submitted by

Mr. P. KOTESWARARAO	21475A0113
Mr. K. SIVA KRISHNA	21475A0107
Mr. O. PRUDHVI	21475A0111
Mr. G. SIVA PULLA RAO	20471A0171
Mr. SK. NAGUR BASHA	20471A0192

In partial fulfillment of requirement for the award of the degree of Bachelor of technology in Civil Engineering of the NARASARAOPETA ENGINEERING COLLEGE, NARASARAOPET, during the year 2023-2024.

PROJECT GUIDE

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EXTERNAL EXAMINER

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(AUTONOMOUS)

DEPARTMENT OF CIVIL ENGINEERING

BONAFIDE CERTIFICATE



This is to certify that the project work entitled

DESIGN AND ANALYSIS OF G+5 RESIDENTIAL BUILDING

USING STAAD PRO

Submitted By

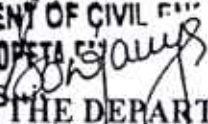
Mr. Sk. ABDUL KALEEM BASHA	20471A0144
Mr. K. GOPI KRISHNA	20471A0120
Mr. SD. SAMEER	20471A0152
Mr. N. RATNA HARSHA	20471A0129
Mr. J. TEJA	20471A0114

In partial fulfillment of requirement for the award of the degree of Bachelor of technology in **Civil Engineering** of the NARASARAOPETA ENGINEERING COLLEGE, NARASARAOPET, during the year 2023-2024.


PROJECT GUIDE

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NARASARAOPETA ENGINEERING COLLEGE

HEAD OF THE DEPARTMENT

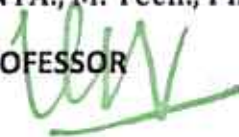
Dr. P. NAGA SOWJANYA., M. Tech., Ph. D

ASSOCIATE PROFESSOR


EXTERNAL EXAMINAR

ii




PRINCIPAL
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NARASARAOPETA ENGINEERING COLLEGE (AUTONOMOUS)



DEPARTMENT OF CIVIL ENGINEERING

BONAFIDE CERTIFICATE

This is to certify that the project work entitled

**AN EXPERIMENTAL STUDY ON PARTIAL REPLACEMENT OF
CEMENT WITH RICE HUSK ASH IN CONCRETE**

Submitted By

B.V.GOPI KRIHNA	20471A0103
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R.HEMANTH	20471A0139
T.GOPI	20471A0153
T.SAI KUMAR	20471A0154

In partial fulfilment of the requirements for the award of the degree Bachelor of Technology in the Department of Civil Engineering, from NARASARAOPETA ENGINEERING COLLEGE, NARASARAOPET, during the year 2020-2024.

Project Guide

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EXTERNAL EXAMINER

NARASARAOPETA ENGINEERING COLLEGE (AUTONOMOUS)



DEPARTMENT OF CIVIL ENGINEERING

BONAFIDE CERTIFICATE

This is to certify that the project work entitled

**ANALYSIS OF BASALT FIBER REINFORCED CONCRETE
WITH PARTIAL REPLACEMENT OF FINE AGGREGATE BY
FOUNDRY SAND**

Submitted By

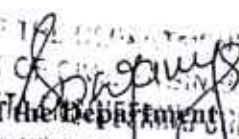
SALMA SULEIMAN SHAIK	20471A0142
RAVINUTHALA PAVAN KALYAN	20471A0140
KOPPULA MANIKANTA	20471A0119
KONAKI VENKATA GOPI	20471A0118
DONTHULURI RAVI KISHORE	20471A0108

In partial fulfillment of the requirement for the award of the degree of Bachelor of Technology in Civil Engineering of the NARASARAOPETA ENGINEERING COLLEGE, NARASARAOPET, during the year 2023-2024.


Project Guide

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DEPARTMENT OF CIVIL ENGINEERING
BONAFIDE CERTIFICATE

This is to certify that the project work entitled

DESIGN OF WATER DISTRIBUTION NETWORK USING EPANET
SOFTWARE IN YELAMANDA

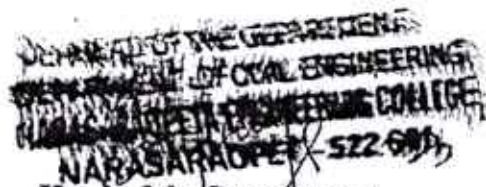
Submitted By

K. ANUHYA	20471A0122
B. RAJU	20471A0102
P. AKASH BABU	20471A0137
V. SANTHI RAJU	20471A0158
P. RAVI TEJA	20471A0134

In partial fulfilment of requirement for the award of the degree of Bachelor of Technology in the Department of Civil Engineering of the NARASARAOPETA ENGINEERING COLLEGE, NARASARAOPET, during the year 2020-2024.

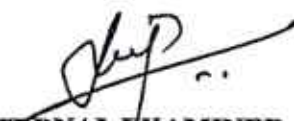

Project Guide


M. N. S. SAMBASIVARAO, M. Tech
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EXTERNAL EXAMINER


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NARASARAOPETA ENGINEERING COLLEGE (AUTONOMOUS)



**DEPARTMENT OF CIVIL ENGINEERING
BONAFIDE CERTIFICATE**

This is to certify that the project work entitled.

**AN EXPERIMENTAL STUDY ON SELF-HEALING CONCRETE
AND ITS STRENGTH**

Submitted By

CH. NIKITHA	20471A0105
G. MOHAN KRISHNA	20471A0110
K. VENKATA GOPICHAND	20471A0116
M. SAKETH	20471A0125
M. NAGA MALLIKARJUNA REDDY	20471A0127
T. BHAVANI PRASAD	20471A0157

In partial fulfillment of requirement for the award of the degree of Bachelor of Technology in the Department of **Civil Engineering** of the NARASARAOPETA ENGINEERING COLLEGE, NARASARAOPET, during the year 2020-2024.

PROJECT GUIDE

**Mr. K. JEYA VIGNES, M.E.
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DEPARTMENT OF CIVIL ENGINEERING
HEAD OF THE DEPARTMENT**

**Dr. P. NAGA SOWJANYA, M.Tech., Ph.D.
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EXTERNAL EXAMINER



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NARASARAOPETA ENGINEERING COLLEGE
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DEPARTMENT OF CIVIL ENGINEERING



CERTIFICATE

This is to certify that the project work entitled “**PREPARATION OF FMB USING TOTAL STATION FOR ULUNDURPET TAMILNADU**” is a bonafide record of the work done by B. Anil Kumar (20471A0101), I. Hemanth kumar (20471A0112), T. Gopala krishna (20471A0155), B.Vamsi (20471A0163), B. Anil kumar (20471A0164). In partial fulfilment for the Degree in Bachelor of Technology in Civil Engineering from NARASARAOPETA ENGINEERING COLLEGE (AUTONOMOUS) NARASAROPET during the year 2020-2024

Project Guide

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Head of the Department

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EXTERNAL EXAMINER

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Guntur (Dist.), A.P.



NARASARAOPETA ENGINEERING COLLEGE (AUTONOMOUS)



**DEPARTMENT OF CIVIL ENGINEERING
CERTIFICATE**

This is to certify that the project work entitled
**PLANNING, DESIGNING, ANALYSIS & ESTIMATION OF G+5
RESIDENTIAL BUILDING**

Submitted By

Mr. M. SIVAJI	21475A0104
Mr. P. VENU GOPAL	21475A0114
Mr. M. PRAMOD	21475A0117
Mr. N. VIJAY	21475A0120
Mr. D. AMARA NAGESWARARAO	21475A0122

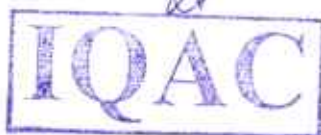
In partial fulfillment of requirement for the award of the degree of Bachelor of technology in **Civil Engineering** of the **NARASARAOPETA ENGINEERING COLLEGE, NARASARAOPET**, during the year 2020-2024.

Project Guide

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EXTERNAL EXAMINER
ii

**PRINCIPAL
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NARASARAOPETA - 522 601
Guntur (Dist.), A.P.**

NARASARAOPETA ENGINEERING COLLEGE

(AUTONOMOUS)



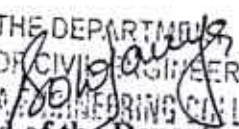
DEPARTMENT OF CIVIL ENGINEERING

BONAFIDE CERTIFICATE

This is to certify that the project work entitled "ANALYSIS & DESIGN OF G+6 RESIDENTIAL BUILDING BY USING STAAD PRO" is a bonafide record of the work done by K. Chaitanya Reddy (20471A0179), K. Gopi Raju (20471A0180), M. Reddy Revanth (20471A0181), Sk. Aashik (21475A0101), A. Ashok (21475A0123). In partial fulfillment for the Degree in Bachelor of Technology in Civil Engineering from NARASARAOPETA ENGINEERING COLLEGE (AUTONOMOUS), NARASAROPET, during the year 2020-2024.


Project Guide

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DEPARTMENT OF CIVIL ENGINEERING
BONAFIDE CERTIFICATE

This is to certify that the project work entitled

**AN EXPERIMENTAL STUDY ON PARTIAL REPLACEMENT
OF CEMENT WITH GROUND GRANULATED BLAST
FURNACE SLAG IN CONCRETE**

Submitted By

LSUBBA REDDY	20471A0113
SK.MOHAMMAD SUHIB	20471A0148
M.V.NARAYANA	20471A0128
G.JAGADEESH	20471A0111
V.BHARGAVA REDDY	20471A0159

In partial fulfillment of requirement for the award of the degree of Bachelor of Technology in the Department of Civil Engineering from NARASARAOPETA ENGINEERING COLLEGE, NARASARAOPET, during the year 2023-2024.

PROJECT GUIDE

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DEPARTMENT OF CIVIL ENGINEERING

BONAFIDE CERTIFICATE

This is to certify that the project work entitled

**ANALYSIS & DESIGN OF G+5 RESIDENTIAL
BUILDING BY USING STAAD PRO**

A. INDRA SENA	21475A0102
A. CHINNABBAI	21475A0110
N. GOPAL KOTESWARA RAO	21475A0117
N. AKSHAY KUMAR	20471A0183
P. SAI MADAN KUMAR	20471A0135

In partial fulfillment for the requirement for the award of degree in Bachelor of Technology in Civil Engineering from NARASARAOPETA ENGINEERING COLLEGE, NARASARAOPET, during the year 2023-2024.


Project Guide

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EXTERNAL EXAMINER

ii


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DEPARTMENT OF CIVIL ENGINEERING



BONAFIDE CERTIFICATE

This is to certify that the project work entitled

**PARTIAL REPLACEMENT OF CEMENT AND FINE AGGREGATE WITH WOOD ASH
AND FOUNDRY SAND IN CONCRETE**

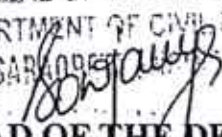
Submitted By

Mr. CH .CHINNA BABU	20471A0168
Mr. P. GOPI CHAND	20471A0185
Mr. SHAIK. DARIYA HUSSAIN	20471A0149
Mr. Y. YOGENDRA KUMAR	20471A0195
Mr. N.VIJAY KRISHNA	20471A01A0

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CERTIFICATE**

This is to certify that the project work entitled

**ANALYSIS OF GROUND WATER IN NARASARAOPET AT VARIOUS
LOCATIONS**

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**ANALYSIS AND DESIGN OF 247 PARK BY USING
STAAD PRO**

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This is to certify that the project that is entitled with the name "SKIN DISEASE PREDICTION" is a bonafide work done by the team SK CHINNA JOHN SAIDA (20471A0555), S VENKATA SAI REDDY (20471A0551), K RAVESAI KARTHIKEYA SHARMA (20471A0527), B. G. N. YHARI HEEMANTH (20471A0507) in partial fulfillment of the requirements for the award of the degree of BACHELOR OF TECHNOLOGY in the Department of COMPUTER SCIENCE AND ENGINEERING during 2023-2024.


29/4/24
PROJECT GUIDE

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PROJECT COORDINATOR

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EXTERNAL EXAMINER

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ABSTRACT

There are hundreds of various skin disorders that can affect humans. Millions of individuals worldwide suffer from skin ailments, making accurate detection techniques essential. Time and accuracy constraints are occasionally a problem for traditional diagnostic techniques. If skin disorders are not addressed in a timely manner, they might lead to complications within the body, such as the infection spreading from person to person. "Skin diseases identification through image classification" and prompt investigation of the affected region can aid in prevention.

To overcome these limitations, we present a deep learning-based prognostic model for skin conditions. To achieve better classification accuracy, we employ a range of machine learning methods in conjunction with feature selection and ensemble learning techniques. We employ a user-friendly, web-based framework created with the Python programming language Flask. Experts can instantly detect skin health issues by uploading images to this portal with ease. We achieve a high accuracy rate of 95% by combining MobileNet classifiers with Convolutional Neural Networks (CNN) to produce precise predictions.

Keywords: Skin diseases, Deep learning, Disease prediction, Convolutional Neural Network (CNN), MobileNet.



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This is to certify that the project work entitled "MOVIE RECOMMENDATION SYSTEM" is a bonafide work done by the team Ch. Sangeeth Reddy (20471A0511), J. Anil Kumar (20471A0523), K. Ramakrishna (20471A0524), M. Tilak (20471A0532) in partial fulfillment of the requirements for the award of BACHELOR OF TECHNOLOGY in the Department of COMPUTER SCIENCE AND ENGINEERING during 2023-2024.



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ABSTRACT

With the rise of the internet, people now have easy access to a lot of information in various fields. However, when faced with too many choices, it's often hard for users to decide what's best for them. Recommendation systems are tools designed to help with this problem by suggesting options tailored to users' interests. Generally, these systems are categorized into two main types: content-based, which recommend items similar to what a user likes, and collaborative filtering, which recommends items liked by similar users.

Researchers are investigating hybrid systems, which integrate many techniques, as a means of overcoming the shortcomings of conventional recommendation methods. Furthermore, recommendations might become even more relevant by providing context. Techniques like direct context modelling, post-filtering, and pre-filtering can be used to include contextual information. In order to improve movie recommendations, this study presents a novel hybrid approach that makes use of pre- and post-filtering techniques. This system makes use of an extensive database that includes ratings, context information, item descriptions, and user profiles. Pre-filtering is the first step in the process, during which the database is simplified by being reduced in size based on a crucial context attribute that is pertinent to the user. Subsequently, a post-filtering stage enhances the recommendations by taking into account supplementary context qualities, guaranteeing that the recommendations are maximally pertinent to the user's present circumstances.




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CERTIFICATE

This is to certify that the project entitled "Semantic Aware Abstractive Multimodal Summarization with Multimodal Output" is a bonafide work done by Sk. Hidaitulla (20471A0554), Ch. Chiranjeevi (20471A0509), G. Phanindra (20471A0516) in partial fulfilment of the requirements for the award of the degree of BACHELOR OF TECHNOLOGY in the Department of **Computer Science & Engineering** during 2023-2024.


PROJECT GUIDE

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Assistant Professor



HEAD OF THE DEPARTMENT

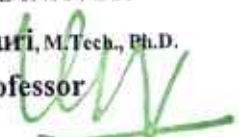
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EXTERNAL EXAMINER

ABSTRACT

The rapid growth of Artificial Intelligence and Machine Learning has led to a boom in the use of speech recognition technology. This paper introduces a novel framework for multimodal summarization, focusing on generating summaries mainly from image inputs. By integrating deep learning architectures capable of processing both textual and visual information, the model gains a comprehensive understanding of the input data's context and relationships. The framework innovatively generates abstractive summaries that capture the essence of input images while maintaining semantic coherence. Leveraging multimodal output mechanisms, it combines textual descriptions with visual elements to provide a holistic representation. Key components such as multimodal transformers, graph neural networks, and cross modal retrieval mechanisms contribute to synthesizing coherent and informative summaries. Transfer learning techniques are applied to adapt pretrained models to the multimodal summarization task. Experimental evaluations demonstrate the framework's effectiveness in generating high-quality, semantics aware abstractive summaries from image inputs. This research advances multimodal summarization techniques, particularly in image centric tasks, with potential applications in content understanding, information retrieval, and multimedia analytics.




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CERTIFICATE

This is to certify that the project work entitled "AUTOMATIC TRAFFIC SIGNS RECOGNITION USING DEEP LEARNING TECHNIQUES" is a bonafide work done by the team N SUMANTH REDDY (20471A05A2), B. PRAVEEN (20471A0570), in partial fulfilment of the requirements for the award of BACHELOR OF TECHNOLOGY in the Department of COMPUTER SCIENCE AND ENGINEERING during 2023-2024.

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ABSTRACT

Deep learning methodologies have revolutionized the landscape of data classification and predictive analytics by enabling algorithms to glean insights directly from raw data. Convolutional Neural Networks (CNNs) have emerged as a prominent technique for image classification and object detection, offering unparalleled versatility across numerous domains. Within the realm of deep learning, object detection holds particular significance, with applications ranging from autonomous driving to surveillance systems. This paper focuses on traffic sign recognition (TSR), a pivotal research domain in the pursuit of autonomous driving technologies, crucial for interpreting both permanent and temporary signage on roadways. Traffic sign detection (TSD) and classification (TSC) constitute essential components of a comprehensive recognition system, often necessitating consideration of model size and inference speed, especially for deployment on portable devices.

Unlike prior studies primarily employing conventional machine learning algorithms, our research introduces a novel approach utilizing a deep CNN architecture integrated with Region of Interest (ROI) selection and Histogram of Oriented Gradients (HOG) feature extraction methods. This combined methodology enables simultaneous detection and classification of traffic signs with high accuracy and minimal computational overhead. Through extensive experimentation on a diverse dataset of traffic sign images, we demonstrate the effectiveness of our approach, achieving a remarkable accuracy rate of 99.3% on the German Traffic Sign Recognition Benchmark (GTSRB). Notably, our model exhibits compact parameterization, with a size of only 1.3M, making it well-suited for resource-constrained environments. The implications of our findings extend to various applications, including advanced autonomous systems, traffic management solutions, and intelligent driver assistance systems. By facilitating real-time detection and interpretation of traffic signs, our approach contributes to enhancing road safety and efficiency in modern transportation networks.




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DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING



CERTIFICATE

This is to certify that the project entitled "Personal Voice Assistant" is a bonafide work done by
Sudhakar 20471A0549, M. Anvesha 20471A0550, M. Anshu 20471A0551 in partial
fulfilment of the requirements for the award of the degree of BACHELOR OF TECHNOLOGY
in the Department of Computer Science & Engineering during the academic year 2023-2024 and
found worthy of acceptance to requirements of the university.


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ABSTRACT

The rapid growth of Artificial Intelligence and Machine Learning has led to a boom in the use of speech recognition technology. Voice Assistants improve services by transforming information into a more engaging format by using techniques like Speech Recognition, Natural Language Processing, and Voice Synthesis. A voice assistant's efficacy is dependent on how quickly and clearly people speak. Voice identification is still a difficult task, nevertheless, because voices have different properties. This essay offers a thorough examination of the many uses for voice assistants in a range of sectors



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CERTIFICATE


This is to certify that the project that is entitled with the name "Pepper leaf blight disease detection using Deep Learning" is a Bonafide, work done by the team V. Manoj Sai Reddy (20471A0564), N. Akhil (20471A0543), M. Narendra (20471A0538), P. Narayana (20471A0548) in partial fulfilment of the requirements for the award of the degree of BACHELOR OF TECHNOLOGY in the DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING during 2023-2024.


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Abstract

Pepper Leaf Blight Disease (PLBD) is a widespread plant ailment that has a severe impact on pepper cultivation across the globe. The rapid detection and precise classification of PLBD severity levels are crucial for efficient disease control and optimal agricultural productivity. The present study introduces a novel model based on Faster region-based convolutional neural network (R-CNN) for the efficient detection and multi-classification of PLBD in pepper leaves. The dataset used for training and testing the model consisted of 1000 images. The model's performance was evaluated based on its detection accuracy and multi classification accuracy, which were found to be good accuracy, respectively. The model's computational efficiency was assessed and determined to be sufficient for deployment in real-time disease detection applications. The study's findings indicate that the faster RCNN model is a successful method for detecting and classifying in pepper leaves. This has the potential to enhance disease management and crop yield in pepper farming. RCNN is an advanced deep learning framework that exhibits promising capabilities in object detection tasks as it effectively merges region proposal techniques with convolutional neural networks. With this study, we successfully adapt and optimize RCNN for the precise identification of primary pepper leaf disease, namely bacterial spot. This paper works on detecting target objects within an image! It seamlessly combines selective search algorithms that propose potential object regions with convolutional neural networks, eventually enabling efficient and accurate identification? By utilizing this robust model, we aim to enhance the detection of common pepper leaf diseases; offering valuable insights for disease management.



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DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING



CERTIFICATE

This is to certify that the project that is entitled with the name "AUTOMATIC HELMET AND LICENSE PLATE RECOGNITION USING YOLOV5 WITH INSTANT E-CHALLAN INTIMATOR USING DEEPLARNING" is a bonafide work done by the team Y. Saketh Kumar (20471A05N7), B.R.S.Karthik(20471A05K3), K. MANIKYA RAO (21475A0511) in partial fulfillment of the requirements for the award of the degree of BACHELOR OF TECHNOLOGY in the Department of COMPUTER SCIENCE AND ENGINEERING during 2023-2024.


PROJECT GUIDE

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PROJECT ORDINATOR

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ABSTRACT

Due to the irregularity of traffic and the affordability of motorcycles, the number of accidents increased rapidly. Now it is a public duty to follow the traffic rules, but we just pay attention. Most use cases require human assistance, but automation is needed for better results. The Automatic Helmet Detection and Number Plate Recognition system presented in this study addresses critical aspects of road safety and law enforcement. This innovative system leverages computer vision and deep learning techniques to automatically detect whether motorcyclists are wearing helmets and recognize the number plates of vehicles in real-time. This yolov8 recognition system detects motor cycle riders without a helmet from .mov extension and records the vehicle license plate and driver and license plate images. The helmet detection component employs Region-Based convolutional neural networks (RCNNs) to analyse video or image streams from traffic surveillance cameras.



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This is to certify that the project work entitled "HealthCareChatbot" is a bonafide work done by the team CH.LikithaBhavya(20471A05K4),A.Bhargavi(20471A05J6),SK. Meerabi(20471A05M9),in partial fulfillment of the requirements for the award of the degree of BACHELOR OF TECHNOLOGY in the Department of COMPUTER SCIENCE AND ENGINEERING during 2023-2024.


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Assistant. Professor


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Dr. M. Sireesha, M. Tech, Ph.D.

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HEAD OF THE DEPARTMENT

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ABSTRACT

To start a good life healthcare is more important, But it is very difficult to obtain the consultation with the doctor in case of any health issues. The proposed idea is to create a health care Chabot system using Artificial Intelligence that can diagnose the disease and provide basic details about the disease before consulting a doctor. The system provides text (or) voice assistance that means user can use own convenient language. Bot will provides which type of disease you have based on user symptoms and appeared doctor details respective to user disease. The Chabot will clarify the users symptoms with serious of questions and the symptom conformation will be done. The disease will be categorized as minor and major disease. Chatbot will reply whether it is a major or minor disease .if it is a major disease user will be suggested with the doctor details and analagesics for further treatment and also provides food suggestion that means which type of food you have to take. The user can achieve the real benefit of a chatbot only when it can diagnose all kind of disease and provide necessary information. A text-to-text diagnosis Bot engages patients in conversation about their medical issues and provides a personalized diagnosis based on their symptoms. Hence, people will have an idea about their health and have the right protection.




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This is to certify that the project work entitled "WATER QUALITY PREDICTION USING MACHINE LEARNING" is a bonafide work done by the team B. Deepthi(20471A05J8), K. Yamini Sai Sri(21475A0501), Sk. Farzana(20471A05M8), M. Bharani(21475A0520) in partial fulfillment of the requirements for the award of the degree of BACHELOR OF TECHNOLOGY in the Department of COMPUTER SCIENCE AND ENGINEERING during 2023-2024.

PROJECT GUIDE

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PROJECT CO-ORDINATOR

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Assoc. Professor

HEAD OF THE DEPARTMENT

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Professor

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PROFESSOR & HEAD
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ABSTRACT


Water is the most important resource for every human being in their daily life. Mainly water is used for agricultural purpose and drinking purpose to use the water in both the aspects it is more important to check the quality of water whether the water is safe to use/drink either it may contain any harmful chemical substances, whether the water may contains the harmful chemicals then the water is determined as unsafe to drink/use.

Based on the consideration of the real time data which includes attributes called Temperature, pH, Chloramines, Sulfates, Hardness, Solids, Organic_carbon, Trihalomethanes, Turbidity, Conductivity, Potability among all those mentioned attributes potability is considered as the target attribute. If the potability is 1 then the water uis safe to drink, whether if the potability is 0 then the water is considered as unsafe to drink.

The application of machine learning in water quality prediction is vast and includes real time monitoring of drinking water sources, early detection of pollution events. By using the power of data and advanced algorithms we can simply understand the dynamics of the water quality.

The findings of the study shows that the accessing of the water quality can becomes more optimal than the other proposed models, and the quality of water can be classified based on the targeted attribute potability. Hence this study helps us to find the accurate water quality information based on the values of the attributes.


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This is to certify that the project that is entitled with the name "Health Insurance Cost Prediction Using Machine Learning" is a bonafide work done by the team R. Anjali (20471A05M5), B. Thanusha (20471A05I9), J. Devi Sri (20471A05L4) in partial fulfillment of the requirements for the award of the degree of BACHELOR OF TECHNOLOGY in the Department of COMPUTER SCIENCE AND ENGINEERING during 2023-2024.


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ABSTRACT

The rising complexity and variability in healthcare expenses necessitate accurate prediction models to assist insurers, policyholders, and healthcare providers in estimating future costs and making informed decisions. Health insurance is of paramount importance as it provides financial protection against the high costs of medical care. It serves as a safety net, ensuring individuals and families can access necessary healthcare services without facing substantial financial burden. Health insurance facilitates timely medical treatment, preventive care, and access to prescription drugs, thereby promoting overall well-being and longevity. Moreover, it safeguards against unforeseen medical emergencies, offering peace of mind and stability during challenging times. Beyond individual benefits, widespread health insurance coverage contributes to healthier communities and a more resilient healthcare system, fostering societal prosperity and equity in access to healthcare services.

The proposed model incorporates diverse features such as demographics, medical history, lifestyle factors, and regional healthcare trends to capture the multifaceted determinants of healthcare expenses. We used the 1338-entry medical cost personal dataset from Kaggle for the United States. The age, gender, bmi, smoking habit, number of children, and other features of the dataset are used to forecast the cost of insurance. To improve the model's prediction ability, feature engineering approaches are utilized to derive significant insights from unprocessed data. The best model for predicting health insurance costs is determined by evaluating a number of machine learning methods, such as gradient boosting, random forest, decision trees, and regression. Appropriate assessment criteria, including mean absolute error (MAE), mean squared error (MSE), root mean square error (RSME), and R-squared, are used to evaluate each model's performance. Due to the success of machine learning algorithms in predicting many decisional situations like stock market predictions, insurance premium, etc. Machine Learning (ML) have gained much attention for the predicting situations.





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This is to certify that the project that is entitled "Deep Learning: Driver Drowsiness Detection" is a bonafide work done by the team S.V.N.M. Sai Rohit (20471A05N2), M.Naga Malleswara Rao (21475A0510), B. Leela Sai Bhargav (21475A0512), Y. Ganesh Reddy (21475A0525) in partial fulfillment of the requirements for the award of the degree of **BACHELOR OF TECHNOLOGY** in the Department of **COMPUTER SCIENCE AND ENGINEERING** during 2023-2024.


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ABSTRACT

Detecting drowsiness is crucial to reduce possible hazards, as driver weariness is a major contributor in a considerable number of accidents globally. As a result, there has been a consistent yearly increase in traffic-related deaths and injuries worldwide. In the effort to reduce accident rates, awareness of the condition of the driver's eyes—whether open or closed—becomes critical.

The accurate localization of the driver's eyes is the main goal of this paper. To precisely identify the eyes, this methodology involves taking a picture of the full face and then using efficient image processing methods and Deep CNN. The technology in use determines the location of the eyes as well as whether or not they are open. When the driver's eyes are closed for a short period of time, the system sounds a warning to get them to open them, preventing possible hazards before they happen.




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CERTIFICATE

This is to certify that the project that is entitled with the name "Loan Approval Prediction Using Machine Learning" is a bonafide work done by the team B. Venkata Siva (20471A05K0), Sk. Aariz Ahmed (21475A0516) in partial fulfillment of the requirements for the award of the degree of BACHELOR OF TECHNOLOGY in the Department of COMPUTER SCIENCE AND ENGINEERING during 2023-2024.


PROJECT GUIDE

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ABSTRACT

Loans are a crucial part of the modern world, and banks receive a significant portion of their profits from them. However, deciding whether to grant a loan to an applicant is a complex process that requires banks to consider many factors.

In this study, we suggest a machine learning-based method to streamline the loan acceptance prediction process. To determine whether or not a loan applicant's profile is relevant for approval, we employ effective machine learning algorithms. We base our predictions on important features. Additionally, we present a comparison study of various categorization methods to demonstrate how machine learning algorithms might enhance the loan approval procedure. Our results show that machine learning algorithms can significantly reduce the risk of loan defaults and improve the loan approval process. Moreover, to enhance prediction accuracy, we incorporate a voting ensemble technique into our methodology. This additional layer of analysis further refines our predictions, contributing to more reliable loan approval decisions.

Furthermore, among all the models, the top three models are Random Forest, Gradient Boost, and Extra Trees. We applied a voting ensemble with these three models and achieved an accuracy of 95.56, where the existing accuracy is 87.26%. This significant improvement underscores the effectiveness of ensemble learning techniques in enhancing prediction accuracy and reliability. By leveraging the collective insights of the top-performing models, our approach ensures more robust and accurate loan approval decisions, ultimately benefiting both financial institutions and loan applicants in the modern financial landscape.



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This is to certify that the project that is entitled with the name "MENTAL HEALTH PREDICTION USING MACHINE LEARNING" is a bonafide work done by the team A. CHETAN KUMAR (20471A0567), D. SHARAN KUMAR (20471A0579), T. NAGA MANIKANTA (20471A05C3) in partial fulfillment of the requirements for the award of the degree of BACHELOR OF TECHNOLOGY in the Department of COMPUTER SCIENCE AND ENGINEERING during 2022-2023.

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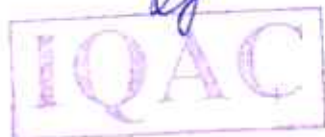
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ABSTRACT

Mental illness is becoming a serious global health problem worldwide, with a growing number of patients suffering from depression, anxiety and other disorders. New solutions are needed to tackle this issue. The main goal of this research project is to develop prediction models to classify users with poor mental health from social network data.

The emotional, psychological and social welfare of a person is revealed by their mental health. It influences how an individual will think, feel or handle a situation. Positive mental health helps an individual to work productively and achieve their full potential. At each point in life, mental health is vital, from childhood to adulthood. Numerous factors contribute to mental health issues which lead to mental illness like stress, social anxiety, depression, obsessive compulsive disorder, drug addiction, workplace issues and personality disorders.

The onset of mental illness should be determined without flaws for maintaining an appropriate life balance. We have collected data from online available datasets. The data has been label encoded for better prediction. The data is being subject to various machine learning techniques to obtain labels. These classified labels will then be used to build a model to predict the mental health of an individual. Our target population is in the working class i.e. people above the age of 18. Once the model is built, it will be integrated to a website so that it can predict the outcome as per the details provided by the user.




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CERTIFICATE

This is to certify that the project that is entitled "PLANT LEAF DISEASE DETECTION USING CNN" is a bonfide work done by the team CH. HARISH (20471A0574), M. GOPAL KRISHNA (20471A05A0), SK. MULLA SADIK(20471A05B3) in partial fulfilment of the requirements for the award of BACHELOR OF TECHNOLOGY in the Department of COMPUTER SCIENCE AND ENGINEERING during 2023-2024.

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ABSTRACT

Deep learning methodologies have revolutionized the landscape of data classification and predictive analytics by enabling algorithms to glean insights directly from raw data. Convolutional Neural Networks (CNNs) have emerged as a prominent technique for image classification and object detection, offering unparalleled versatility across numerous domains. Within the realm of deep learning, object detection holds particular significance, with applications extending to agriculture, particularly in detecting plant diseases crucial for maintaining crop health and yield.

Through extensive experimentation on a diverse dataset of plant disease images, we demonstrate the effectiveness of our approach, achieving a remarkable accuracy rate of 95% on the PlantDoc dataset. Notably, our model exhibits compact parameterization, with a size that is well-suited for resource-constrained environments. The implications of our findings extend to various applications, including advanced agricultural systems, crop management solutions, and intelligent farming assistance systems. By facilitating real-time detection and interpretation of plant diseases, our approach contributes to enhancing crop productivity and sustainability in modern agricultural networks.




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This is to certify that the project that is entitled with the name "COMPANY'S STOCK PRICE PREDICTION USING MACHINE LEARNING" is a bonafide work done by the team K.Vamsi Karthikeya (20471A0593), M. Durga Venkatesh (20471A0598), M. Chaitanya Kumar (20471A0599), in partial fulfillment of the requirements for the award of the degree of BACHELOR OF TECHNOLOGY in the Department of COMPUTER SCIENCE AND ENGINEERING during 2023- 2024.

PROJECT GUIDE

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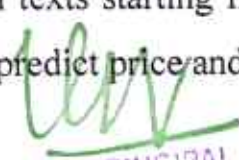
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ABSTRACT

A stock market is a public market where you can buy and sell shares for publicly listed companies. The stocks, also known as equities, represent ownership in the company. The stock exchange is the mediator that allows the buying and selling of shares. Stock Price Prediction using machine learning helps you discover the future value of company stock and other financial assets traded on an exchange. The entire idea of predicting stock prices is to gain significant profits. Predicting how the stock market will perform is a hard task to do. There are other factors involved in the prediction, such as physical and psychological factors, rational and irrational behavior, and so on. All these factors combine to make share prices dynamic and volatile. This makes it very difficult to predict stock prices with high accuracy.

In the financial markets, stock price prediction is still a crucial topic for study and practical application that affects risk management and investing techniques. An overview of current developments, approaches, difficulties, and possible future paths in the field of stock price prediction is given in this abstract. It begins by outlining how methods for predicting stock prices have changed over time, moving from more conventional statistical approaches to more advanced machine learning and artificial intelligence models. By using enormous amounts of financial data, such as historical prices, trading volumes, news mood, and macroeconomic indicators, the shift to data-driven techniques has greatly increased predicted accuracy and resilience. The overview then goes over important techniques used in stock price prediction, such time series analysis, machine learning algorithms (like decision tree, and support vector machines), and machine learning, economical technique which may predict stock movement additional accurately. Social media offers a robust outlet for people's thoughts and feelings it's a fast-ever-growing supply of texts starting from everyday observations to concerned discussions. By this we can predict price and we can invest on it


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CERTIFICATE

This is to certify that the project work entitled "NETWORK INTRUSION DETECTION:RESOLVING DATA IMBALANCE USING SUPPORT VECTOR MACHAINES " is a bonfide work done by the team J.RAJESH (20471A0586),SD YASIN SHAREEF (20471A05B2), Y.L.KOTESWARA RAO(20471A05C8) in partial fulfilment of the requirements for the award of **BACHELOR OF TECHNOLOGY** in the Department of **COMPUTER SCIENCE AND ENGINEERING** during 2023-2024.


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ABSTRACT

The objective of this study was to assess the performance of various resampling strategies aimed at mitigating the class imbalance problem in Network Intrusion Detection Systems (NIDS) using machine learning models and imbalanced benchmark datasets. Due to this class imbalance problem, detection of known or unknown attacks in NIDS often results in suboptimal performance. Resampling methods, statistically designed to generate synthetic samples from existing datasets, were employed to rebalance class labels and train the machine learning models. The Support Vector Machine (SVM), a robust supervised classifier, was utilized to classify data by identifying the optimal decision boundary that maximally separates different classes.

In this context, efforts were made to enhance the effectiveness of these resampling techniques and consider the potential benefits of hybrid models. No resampling (NR), Synthetic Minority Over-sampling Technique (SMOTE), Random Under Sampling (RUS), Random Under Sampling and Random Over Sampling (RUS+ROS), and Random Under Sampling and SMOTE (RUS+SMOTE) were evaluated. The SVM classifier with Radial Basis Function (RBF) was employed, validated against the imbalanced benchmark dataset CICIDS-2017 (Canadian Institute for Cyber Security Intrusion Detection dataset-2017), to assess the effectiveness of these methods using performance metrics such as Accuracy, Precision, Recall, F1 score, and wall time.

The proposed method achieved a remarkable accuracy of 99.63% in intrusion detection, demonstrating impressive results when compared to state-of-the-art methods for detecting network attacks on imbalanced datasets. The findings from this research provide valuable insights into the potential of various resampling methods in tackling class imbalance problems in NIDS.



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CERTIFICATE

This is to certify that the project that is entitled with the name "Breast Cancer Detection using Deep Learning Approaches for Mammograms" is a bonafide work done by the team P.Pavani(20471A05A4), G.Bhavana(20471A0582), T.Sireesha(20471A05C2), Y. Geethika(20471A05C6) in partial fulfillment of the requirements for the award of the degree of BACHELOR OF TECHNOLOGY in the Department of COMPUTER SCIENCE AND ENGINEERING during 2023-2024.

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Dr. S. N. Tirumala Rao
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Professor & HoD

Y. Geethika
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PROFESSOR & HEAD
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ABSTRACT

Breast cancer remains a significant health concern worldwide, with early detection playing a crucial role in improving patient outcomes. In recent years, deep learning approaches have shown promise in aiding the detection and diagnosis of breast cancer from mammogram images. In this study, we investigate the effectiveness of two deep learning architectures, VGG16 and a custom Convolutional Neural Network (CNN), and ResNet18 for breast cancer detection using mammograms.

First, we preprocess the mammogram images to enhance their quality and normalize their features. This preprocessing step is essential for ensuring that the deep learning models can effectively extract relevant information from the images. By enhancing the quality of the mammograms and normalizing their features, we aim to improve the performance of the deep learning models in accurately detecting signs of breast cancer.

Next, we train the VGG16 model on a large dataset of labeled mammogram images, where each image is classified as either indicative of breast cancer or not. By leveraging transfer learning and fine-tuning techniques, we fine-tune the pre-trained VGG16 model to adapt it to the task of breast cancer detection. We then evaluate the performance of the trained VGG16 model on a separate test dataset to assess its accuracy, sensitivity, and specificity in detecting breast cancer from mammogram images.

Finally, we compare the performance of VGG16 with other deep learning architectures such as CNN and ResNet18. By conducting comprehensive experiments and analyses, we aim to identify the strengths and weaknesses of each deep learning architecture in the context of breast cancer detection. Our findings contribute to the ongoing efforts to develop more accurate and efficient tools for early breast cancer detection, ultimately leading to improved patient outcomes and survival rates.

A purple rectangular stamp with the text "NARASARAOPETA ENGINEERING COLLEGE (AUTONOMOUS) NARASARAOPET - 522 601 Guntur (Dist.), A.P." in a bold, sans-serif font. Above the stamp is a handwritten signature in green ink.

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CERTIFICATE

This is to certify that the main project entitled "BRAIN TUMOR DETECTION USING DEEP LEARNING" is a bonafide work done by M Venkata Sai Pavan Kumar (20471A0596), S.Gopi Krishna (20471A05B0) in partial fulfillment of the requirements for the award of the degree of **BACHELOR OF TECHNOLOGY** in the Department of **COMPUTER SCIENCE AND ENGINEERING** during 2023-2024

PROJECT GUIDE


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PROJECT COORDINATOR


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HEAD OF THE DEPARTMENT

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ABSTRACT

The accurate and timely detection of brain tumors plays a crucial role in the effective management of neurological disorders. This abstract presents a comprehensive overview of a novel approach for brain tumor detection leveraging deep learning techniques. Our proposed method utilizes convolutional neural networks (CNNs) and recurrent neural networks (VGG16s) to analyze medical imaging data, specifically magnetic resonance imaging (MRI) scans. The workflow involves pre processing of MRI images to enhance features, followed by a CNN based feature extraction stage that learns hierarchical representations. The extracted features are then fed into an VGG16 to capture temporal dependencies and spatial relationships within the data. This hybrid deep learning architecture enhances the model's ability to discern subtle patterns indicative of brain tumors, improving both sensitivity and specificity. To facilitate model training and evaluation, a curated dataset of diverse brain tumor cases is utilized. The model demonstrates promising results in terms of accuracy, sensitivity, and specificity during rigorous validation and testing phases. The proposed approach not only outperforms traditional methods but also exhibits robustness against variations in imaging conditions and tumor characteristics. In conclusion, our deep learning- based approach showcases the potential for significantly improving the accuracy and efficiency of brain tumor detection in clinical settings. The integration of CNNs and VGG16s in a unified framework demonstrates the synergy of spatial and temporal information, making it a promising avenue for enhancing the capabilities of automated brain tumor diagnosis.




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This is to certify that the main project entitled "PHISHING URL DETECTION USING MACHINE LEARNING" is a bonafide work done by P.V.N. SAMPATH (20471A05A5), V.SIVAKUMAR RAJA (20471A05C5), G. AMARNADH (20471A0585)" in partial fulfillment of the requirements for the award of the degree of BACHELOR OF TECHNOLOGY in the department of COMPUTER SCIENCE AND ENGINEERING during 2023-2024.

PROJECT GUIDE

SK. Khaja Mohiddin Basha, MTech.

PROJECT CO-ORDINATOR

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Dr. S.N. Tirumala Rao, M.Tech., Ph.D.

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ABSTRACT

In recent times, there is a massive increase in the number of devices that are being connected to the internet. These devices include but are not limited to smartphones, IoT, and cloud networks. In comparison to other possible cyber-attacks, these days, hackers are targeting these devices with phishing attacks since it exploits human vulnerabilities rather than system vulnerabilities. In a phishing attack, an online user is deceived by a seemingly trusted entity to give their personal data, i.e., login credentials or credit card details.

When this private information is leaked to the hackers, this information becomes the source of other sophisticated attacks. In recent times many researchers have proposed the machine learning-based approach to solve phishing attacks; however, they have used a large number of features to develop reliable phishing detection techniques. A large number of features requires large processing powers to detect phishing, which makes it very much unsuitable for resource constrained devices. Our proposed model addresses this issue and considers only needs nine lexical features for effectively detecting phishing attacks. We utilized dataset from uci repository for our experimental purpose, where 16062 instances of legitimate and phishing URLs are present. Our proposed was tested approach against different machine learning classifiers and have obtained the highest accuracy of 99.01% with the Random forest algorithm.




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This is to certify that the project that is entitled "CROP RECOMMENDATION SYSTEM" is a bonafide work done by the team "Shaik Sathik Ali (20471A05B5), Shaik Shahid (20471A05B7), Savarapu Sukumar (20471A05B1), Kari Srihari (20471A0590)" in partial fulfillment of the requirements for the award of the degree of BACHELOR OF TECHNOLOGY in the Department of COMPUTER SCIENCE AND ENGINEERING during 2023-2024.

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ABSTRACT

The abstract highlights how important agriculture is to India's economy, since it accounts for a sizeable share of the country's GDP and provides the majority of the country's jobs. Many farmers continue to use traditional techniques and largely rely on weather cues when making farming decisions, even in the face of innovations like vertical farming. With the use of machine learning algorithms, this research seeks to transform agricultural practices by providing individualized crop suggestions. These models carefully examine a number of important variables, such as pH levels, humidity, precipitation patterns, and soil composition (nitrogen, phosphorus, and potassium). Through the utilization of these characteristics, the models offer farmers customized insights that enhance crop selection and production methods. By utilizing advanced methods including Random Forests, Logistic Regression, Gaussian Naive Bayes, and Decision Trees, the research improves prediction accuracy in a variety of environmental settings. Through the provision of data-driven insights to farmers, this program aims to improve agricultural productivity, reduce weather-related risks, strengthen the resilience of India's agricultural sector, and promote sustainable economic growth.


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CERTIFICATE

This is to certify that the project that is entitled "PNEUMONIA DETECTION USING DEEP LEARNING" is a bonafide, work done by the team M. Gopi Trinadh (20471A0595), K.V.M. Pavan Kiran (20471A0592), Y. Gopanjaneyulu (20471A05C9) in partial fulfilment of the requirements for the award of the degree of BACHELOR OF TECHNOLOGY in the DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING during 2023-2024.

PROJECT GUIDE

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ABSTRACT

The global challenge of pneumonia, a severe infectious disease-causing millions of deaths annually. Recognizing the critical need for early detection, especially, the main diagnostic method for this illness is chest x-rays where this study proposes a solution using deep learning. Leveraging the EfficientNetB3 architecture, the model is learned from massive dataset of chest X-ray images to accurately discern between normal and pneumonia-affected lungs. The envisioned outcome is a deployable deep learning tool that can significantly enhance the speed and precision of pneumonia detection in medical facilities, facilitating timely interventions and ultimately contributing to saving lives and reducing the overall impact of pneumonia on communities where our model has greater training, testing and validation accuracies as 100%, 98.43% and 98.23% respectively.




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CERTIFICATE

This is to certify that the project work that is entitled "PREDICTING SOLAR RADIATION WITH VARIOUS MACHINE LEARNING ALGORITHMS" is bonafide work done by the team G.Karthik Reddy (20471A0580), K.Dhanush(20471A0591), in partial fulfillment of the requirements for the award of the degree of BACHELOR OF TECHNOLOGY in the Department of COMPUTER SCIENCE AND ENGINEERING during 2023-2024.


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ABSTRACT

Solar radiation stands as the primary driver of Earth's energy balance, influencing various facets of our environment, from daily weather patterns to long-term climate trends. Recognizing its pivotal role, industries reliant on solar energy and climate researchers alike require precise forecasts of solar radiation levels. To meet this demand, a comprehensive study employed twelve distinct machine learning models, each tailored to capture different aspects of solar radiation variability. These models, including sophisticated algorithms like GBRT, XGBoost, GPR, Extra tree regression, Bagging regressor, and random forest, were evaluated extensively to understand their efficacy in predicting solar radiation. Notably, the study illuminated the critical influence of meteorological parameters such as temperature, humidity, wind direction, and pressure on refining the accuracy of these predictions. By analyzing trends, the study also underscored the exacerbating effect of solar radiation on extreme climate events, emphasizing the urgency of accurate forecasting for climate resilience efforts. The development of a stacking model, which combined the strengths of multiple individual models, showcased promising results in improving solar radiation predictions. However, despite its success, the stacking model did not yield significant advancements over the exceptional performance of the Extra tree regression model alone. This highlights the importance of identifying and leveraging the most effective modeling approaches tailored to the intricacies of solar radiation prediction. In conclusion, the study's findings underscore the critical role of advanced machine learning techniques and comprehensive meteorological data in advancing our understanding and forecasting of solar radiation, ultimately facilitating informed decision-making across diverse sectors impacted by solar energy dynamics and climate variability.

However, when it came to predicting solar radiation, the stacking model had no benefit over the Extra tree regression model. We conclude that the best models for predicting solar radiation are the stacking model and the Extra tree regression model. Both Extra tree regression and stacking models have almost equal accuracy so we constructed a model for Extra tree regression and the accuracy for Extra tree regression is 93.18 while constructing the model the Decision tree regressor took more time to construct model when compared to the other machine learning algorithms.



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This is to certify that the project work entitled "INTRUSION DETECTION USING MACHINE LEARNING" is a bonafide work done by the team CH. Divya (20471A0578), T. Neethana (20471A05C1), M. Lahari (20471A05A1) in partial fulfillment of the requirements for the award of the degree of BACHELOR OF TECHNOLOGY in the Department of COMPUTER SCIENCE AND ENGINEERING during 2023-2024.

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Associate Professor

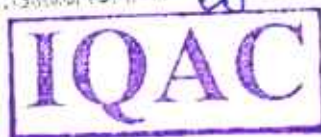
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ABSTRACT

In the rapidly evolving digital landscape, maintaining the security of computer networks and systems has become essential. Conventional methods often struggle to remain relevant in light of the increasing complexity and diversity of cyber threats. The frameworks of cybersecurity and network analysis are necessary to detect and respond to malicious activity, unauthorized access, and potential threats within a network or system. Its ability to handle complex, unbalanced datasets and the exceptional performance of the few algorithms we used across several domains make it a serious contender for improving intrusion detection accuracy. The primary objective is the prediction of attacks based on the information in dataset. We get the different predictions for from the dataset by applying the Algorithms like XG Boost, Cat Boost, KNN, SVM, Naive Bayes and QDA. These algorithms are useful to handle the complex dataset like NSL-KDD.

We go into detail about how each algorithm is implemented, beginning with K-Fold, which is essential for maximizing model performance. The gradient boosting methods Cat Boost and XG Boost are well-known for their exceptional accuracy and efficiency in classification applications. To ensure a balanced representation of all attack types in both training and testing sets, the NSL-KDD dataset is divided into two sets for the experimental setting. Each algorithm's performance is assessed using criteria including support, F1 score, recall, accuracy, and precision. These measurements offer an all-encompassing perspective on model performance, accounting for factors such as overall accuracy, class imbalance handling capability, and attack type discrimination. Many in-depth experiments are conducted with the NSL-KDD dataset to evaluate the performance of different methods. In our investigation, three algorithms XgBoost, CatBoost, and KNN achieved the accuracy score of 99%



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A handwritten signature in green ink, consisting of stylized, cursive letters.

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CERTIFICATE

This is to certify that the project work entitled "YOLO Object Detection Using Deep Learning" is a bonfide work done by the team G Nagalakshmi Ratna Manikyamma (20471A0584) . K.Princy (20471A0588), R. Anusha(20471A05A8) in partial fulfilment of the requirements for the award of BACHELOR OF TECHNOLOGY in the Department of COMPUTER SCIENCE AND ENGINEERING during 2023-2024.

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ABSTRACT

Deep learning provides the ability to train algorithms (models) that can tackle the problems of data classification and prediction based on deriving (learning) knowledge from raw data. Convolutional Neural Networks (CNNs) provides one commonly used approach for image classification and detection. Because of its various advantages, it has been applied in many fields. Object detection is an important technology in deep learning, and object detection based on deep learning has also been studies.

In the area of computer vision, object detection is a complex and dynamic task that includes localizing a single object or detecting multiple objects in the scene images. It is very difficult to find the location of the object in a given picture and mark the object with the appropriate category. In this paper, a method has been developed for object recognition using the pre-trained deep learning model. The objective is, to detect objects by capturing images from a webcam and subsequently detecting objects in a video stream and displaying the count of specific objects, which is specifically designed to be efficient for visualization applications. This process is repeated for every frame of the video stream, enabling real-time object detection for the entire video. The set of YOLO algorithms is known for its accuracy and speed in computer vision tasks. This proposed system provides accurate counting, real-time monitoring, automation, efficiency, and flexibility. The developed method in real-time object detection using the YOLO model using COCO dataset offers a promising solution for efficient and I accurate object detection in various applications. This method detects the objects in real-time with much more accuracy compared with existing methods.



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CERTIFICATE

This is to certify that the project work entitled "YOLO Object Detection Using Deep Learning" is a bonfide work done by the team G. Nagalakshmi Ratna Manikyamma (20471A0584), K.Princy (20471A0588), R.Anusha (20471A0581) in partial fulfilment of the requirements for the award of **BACHELOR OF TECHNOLOGY** in the Department of **COMPUTER SCIENCE AND ENGINEERING** during 2023-2024.

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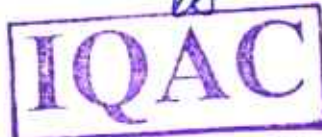
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ABSTRACT

Deep learning provides the ability to train algorithms (models) that can tackle the problems of data classification and prediction based on deriving (learning) knowledge from raw data. Convolutional Neural Networks (CNNs) provides one commonly used approach for image classification and detection. Because of its various advantages, it has been applied in many fields. Object detection is an important technology in deep learning, and object detection based on deep learning has also been studied.

In the area of computer vision, object detection is a complex and dynamic task that includes localizing a single object or detecting multiple objects in the scene images. It is very difficult to find the location of the object in a given picture and mark the object with the appropriate category. In this paper, a method has been developed for object recognition using the pre-trained deep learning model. The objective is, to detect objects by capturing images from a webcam and subsequently detecting objects in a video stream and displaying the count of specific objects, which is specifically designed to be efficient for visualization applications. This process is repeated for every frame of the video stream, enabling real-time object detection for the entire video. The set of YOLO algorithms is known for its accuracy and speed in computer vision tasks. This proposed system provides accurate counting, real-time monitoring, automation, efficiency, and flexibility. The developed method in real-time object detection using the YOLO model using COCO dataset offers a promising solution for efficient and accurate object detection in various applications. This method detects the objects in real-time with much more accuracy compared with existing methods.




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CERTIFICATE

This is to certify that the project that is entitled with the name "Chronic Kidney Disease Prediction Using Machine Learning" is a bonafide work done by the team Jahnvi Chekuri (20471A0576), Sharmila Shaik (20471A05B9), Lakshmi Sravani Ch (20471A0575) in partial fulfillment of the requirements for the award of the degree of **BACHELOR OF TECHNOLOGY** in the Department of **COMPUTER SCIENCE AND ENGINEERING** during 2023-2024.



PROJECT GUIDE

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ABSTRACT

Chronic Kidney Disease is a serious lifelong condition induced by either kidney pathology or reduced kidney functions. According to the survey in 2021-2022 for every 10 in 3 people are suffering from this chronic kidney disease. Initially, we considered 21 variables alongside the class property. It enables us to introduce the optimal subset of parameters to feed machine learning to build a set of predictive models. K-Nearest Neighbor, XG-BOOST, Chi-Square, Logistic Regression, Support Vector Machine, Random Forest, and Decision Tree methods are applied for prediction. Among these seven methodologies, the proposed model suggests a Logistic Regression is also suitable for the early prediction of this kind of disease.

Performance measures show that Logistic Regression gives 99 % accuracy, Random Forest (RF) gives 98 % accuracy, Decision Tree gives 98 % accuracy, K-Nearest Neighbor (K-NN) gives 99% accuracy, XG-Boost gives 99 % accuracy, Chi-Square gives 99% accuracy, Support Vector Machine (SVM) give 98% accuracy. The experimental procedure concludes that advances in machine learning and predictive analytics, represent a promising model to recognize intelligent solutions, which in turn prove the ability of prediction in kidney disease.


The logo consists of the letters 'IQAC' in a bold, serif font, enclosed within a rectangular border.
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CERTIFICATE

This is to certify that the main project that is entitled with the name "FLIGHT FARE PREDICTION USING RANDOM FOREST ALGORITHM" is a bonafide work done by the team "Y Hemasri (20471A05C7), A.Sowmya Brantarambika (20471A0568), P.V.Geethika Bhuvaneshwari (20471A05A6)" in partial fulfilment of the requirements for the award of the degree of BACHELOR OF TECHNOLOGY in the department of COMPUTERSCIENCE AND ENGINEERING during 2023-2024.

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ABSTRACT

The globe is full of transportation networks, primarily buses, trains, airplanes, etc. In addition to using the train system, some people also travel by bus and airplane. Generally speaking, ticket prices for airline travel are higher than for other modes of transportation. We can easily move from one place to another because of the journey distance, which makes them more expensive. Also, as a result of ignorance, most people spend more money and are unaware of when prices are high and low. Thus, we are able to forecast the flight cost in our project and determine when it is high and when it is low. Here, we may use the Random Forest machine learning technique to forecast the flight cost by taking into account the origin, destination, departure and arrival times, number of stops, airlines, and other factors. Using the Random Forest Algorithm, we can use this information to estimate flight fares and inform clients of either high or cheap ticket prices. High performance accuracy was demonstrated by our research in Random forest, the obtained accuracy is 82.82%.




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This is to certify that the project work entitled "Facial Emotion Detection Using Deep Learning" is a bonafide work done by the team S. Harshini (20471A05C0), G. Divya (20471A0581), T. Usha Gayathri Raimaji (20471A05C4) in partial fulfillment of the requirements for the award of the degree of BACHELOR OF TECHNOLOGY in the Department of COMPUTER SCIENCE AND ENGINEERING during 2023-2024.

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U. Srinivas
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ABSTRACT

Facial expressions serve as a powerful form of non-verbal communication, conveying emotions and intentions that are often difficult to articulate verbally. Recognizing these expressions automatically through technology has become increasingly important, with applications ranging from human-computer interaction to mental health assessment. In the field of automatic facial expression recognition (FER), researchers primarily rely on two main approaches: geometry-based and appearance-based methods. These methods involve several stages, including pre-processing, face detection, feature extraction, and expression classification. However, achieving high accuracy rates in FER remains a challenging task. Recent advancements in deep learning, particularly convolutional neural networks (CNNs), have shown promise in addressing the complexities of FER. By leveraging CNNs, researchers aim to accurately identify a range of human emotions, including anger, disgust, fear, happiness, sadness, surprise, and neutral expressions. This involves training CNN models on datasets such as FER 2013, which contains labeled samples representing these expressions.

The project outlined here adopts a CNN-based approach for FER, comprising three main phases: face detection using Haar Cascades, normalization of facial images, and emotion recognition using CNN models trained on the FER 2013 database. By processing facial data through these stages, the system aims to accurately identify and classify the emotions expressed by individuals. Leveraging deep learning techniques for facial expression recognition holds promise for enhancing educational practices. By integrating FER technology into classrooms, educators can gain valuable insights into students' emotional responses, enabling them to tailor their teaching strategies for improved learning outcomes and overall student well-being.




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This is to certify that the project that is entitled "CALORIE BURNT PREDICTION USING MACHINE LEARNING" is a bonafide work done by the team G. Dharma Teja (20471A05L1), G. Aravind (20471A05L0), K. Raju (21475A0518), N. Satish Kumar (21475A0527) in partial fulfilment of the requirements for the award of the degree of **BACHELOR OF TECHNOLOGY** in the Department of **COMPUTER SCIENCE AND ENGINEERING** during 2023-2024.


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ABSTRACT

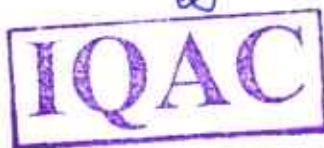
In today's world, people are having very tight schedules due to the changes in their lifestyles and work commitments. But it requires regular physical activity to stay fit and healthy. People do not concentrate on their food habits, leading to obesity. Obesity is becoming a major and common problem in today's lifestyle. This leads people to choose their diet and do an equal amount of exercise to stay fit and healthy. The main part here is people should have adequate knowledge about their calorie intake and burn, keeping a track of their calorie intake is easy as it's available on the product label or on the internet. Keeping track of calories burnt is a difficult part as there are very few devices for that. Calories burned by an individual are based on MET charts and formulas.

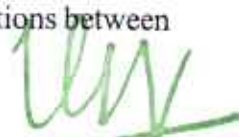
This study aims to predict burned calories using regression models, with a focus on XGBoost as the primary machine learning algorithm. Trained on over 15,000 data points, the XGBoost model achieves a mean absolute error of 2.7, with potential for further improvement over time. While other regression models like linear, ridge, and random forest were considered, XGBoost consistently outperformed them in accuracy and precision. Its ability to handle complex data makes it the preferred choice for accurately estimating burned calories, offering valuable insights for fitness tracking and health management.

Using machine learning algorithms, it is possible to estimate the number of calories burned during physical activity. This can be done by analyzing various inputs such as heart rate, movement patterns, and other biometric data.

One common approach is to use a combination of supervised and unsupervised learning techniques. Supervised learning algorithms are trained on labeled data, such as heart rate and calorie burn data collected from a group of individuals during physical activity. These algorithms learn to recognize patterns in the data and can be used to make predictions on new data.

Unsupervised learning algorithms can also be used to analyze patterns in the data, but without the use of labeled data. This can be useful in identifying unexpected correlations between variables that may not have been apparent through supervised learning alone.




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CERTIFICATE

This is to certify that the project work entitled "BANK LOAN ELIGIBILITY PREDICTION USING MACHINE LEARNING" is a bonafide work done by the team CH. Poojitha(20471A0577), G.Sindhu(20471A0583), K.Hima(20471A0587), in partial fulfillment of the requirements for the award of the degree of BACHELOR OF TECHNOLOGY in the Department of COMPUTER SCIENCE AND ENGINEERING during 2023-2024.



PROJECT GUIDE

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Assoc. Professor



PROJECT CO-ORDINATOR

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HEAD OF THE DEPARTMENT

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ABSTRACT

Predicting bank loan eligibility is crucial for financial institutions to make informed decisions and minimize risks. In the banking sector, one of the most tiresome tasks is the loan approval procedure. Machine learning algorithms are transforming operations across various industries, such as finance, real estate, security, and genomics. Advances in technology, including machine learning models, can enhance the efficiency, precision, and speed of loan approval procedures.

The models underwent training on the 'Loan Eligible Dataset,' a historical dataset licensed under the Database Contents License (DbCL) v1.0 and accessible on Kaggle. Using Python programming libraries and Kaggle's Jupyter Notebook cloud environment, the dataset was processed and examined. This paper presents five (5) machine learning algorithms (Logistic Regression, Support Vector Machine, Decision Tree, Random Forest, Gradient Boosting) for predicting loan eligibility. High performance accuracy was demonstrated by our research, with the Random Forest method scoring 96.69%, the highest, and Logistic Regression scoring 76.16%.




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CERTIFICATE

This is to certify that the project that is entitled with the name "MENTAL HEALTH PREDICTION USING MACHINE LEARNING" is a bonafide work done by the team A. CHETAN KUMAR (20471A0567), D. SHARAN KUMAR (20471A0579), T. NAGA MANIKANTA (20471A05C3) in partial fulfillment of the requirements for the award of the degree of BACHELOR OF TECHNOLOGY in the Department of COMPUTER SCIENCE AND ENGINEERING during 2022-2023.

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PROJECT CO-ORDINATOR

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ABSTRACT

Mental illness is becoming a serious global health problem worldwide, with a growing number of patients suffering from depression, anxiety and other disorders. New solutions are needed to tackle this issue. The main goal of this research project is to develop prediction models to classify users with poor mental health from social network data.

The emotional, psychological and social welfare of a person is revealed by their mental health. It influences how an individual will think, feel or handle a situation. Positive mental health helps an individual to work productively and achieve their full potential. At each point in life, mental health is vital, from childhood to adulthood. Numerous factors contribute to mental health issues which lead to mental illness like stress, social anxiety, depression, obsessive compulsive disorder, drug addiction, workplace issues and personality disorders.

The onset of mental illness should be determined without flaws for maintaining an appropriate life balance. We have collected data from online available datasets. The data has been label encoded for better prediction. The data is being subject to various machine learning techniques to obtain labels. These classified labels will then be used to build a model to predict the mental health of an individual. Our target population is in the working class i.e. people above the age of 18. Once the model is built, it will be integrated to a website so that it can predict the outcome as per the details provided by the user.




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This is to certify that the project that is entitled "PLANT LEAF DISEASE DETECTION USING CNN" is a bonfide work done by the team CH. HARISH (20471A0574), M. GOPAL KRISHNA (20471A05A0), SK. MULLA SADIK(20471A05B3) in partial fulfilment of the requirements for the award of BACHELOR OF TECHNOLOGY in the Department of COMPUTER SCIENCE AND ENGINEERING during 2023-2024.

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ABSTRACT

Deep learning methodologies have revolutionized the landscape of data classification and predictive analytics by enabling algorithms to glean insights directly from raw data. Convolutional Neural Networks (CNNs) have emerged as a prominent technique for image classification and object detection, offering unparalleled versatility across numerous domains. Within the realm of deep learning, object detection holds particular significance, with applications extending to agriculture, particularly in detecting plant diseases crucial for maintaining crop health and yield.

Through extensive experimentation on a diverse dataset of plant disease images, we demonstrate the effectiveness of our approach, achieving a remarkable accuracy rate of 95% on the PlantDoc dataset. Notably, our model exhibits compact parameterization, with a size that is well-suited for resource-constrained environments. The implications of our findings extend to various applications, including advanced agricultural systems, crop management solutions, and intelligent farming assistance systems. By facilitating real-time detection and interpretation of plant diseases, our approach contributes to enhancing crop productivity and sustainability in modern agricultural networks.




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COMPANY'S STOCK PRICE PREDICTION USING MACHINE LEARNING

*A Project Report submitted in the partial fulfilment of the requirements for
the award of the degree*

BACHELOR OF TECHNOLOGY

In

COMPUTER SCIENCE AND ENGINEERING

Submitted by

K. Vamsi Karthikeya	(20471A0593)
M. Durga Venkatesh	(20471A0598)
M. Chaitanya Kumar	(20471A0599)

Under the esteemed guidance of

Dr.K.Lakshminadh M.Tech., Ph.D

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2023-2024



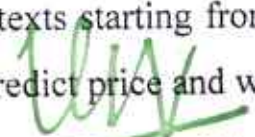

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ABSTRACT

A stock market is a public market where you can buy and sell shares for publicly listed companies. The stocks, also known as equities, represent ownership in the company. The stock exchange is the mediator that allows the buying and selling of shares. Stock Price Prediction using machine learning helps you discover the future value of company stock and other financial assets traded on an exchange. The entire idea of predicting stock prices is to gain significant profits. Predicting how the stock market will perform is a hard task to do. There are other factors involved in the prediction, such as physical and psychological factors, rational and irrational behavior, and so on. All these factors combine to make share prices dynamic and volatile. This makes it very difficult to predict stock prices with high accuracy.

In the financial markets, stock price prediction is still a crucial topic for study and practical application that affects risk management and investing techniques. An overview of current developments, approaches, difficulties, and possible future paths in the field of stock price prediction is given in this abstract. It begins by outlining how methods for predicting stock prices have changed over time, moving from more conventional statistical approaches to more advanced machine learning and artificial intelligence models. By using enormous amounts of financial data, such as historical prices, trading volumes, news mood, and macroeconomic indicators, the shift to data-driven techniques has greatly increased predicted accuracy and resilience. The overview then goes over important techniques used in stock price prediction, such time series analysis, machine learning algorithms (like decision tree, and support vector machines), and machine learning economical technique which may predict stock movement additional accurately. Social media offers a robust outlet for people's thoughts and feelings it's a fast-ever-growing supply of texts starting from everyday observations to concerned discussions. By this we can predict price and we can invest on it


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This is to certify that the main project entitled "RESTAURANT RATING PREDICTION USING MACHINE LEARNING" is a bonafide work done by team **A. Venkateshwarlu (20471A0566), B. Ravi Teja (20471A0572), K.Vamsi Krishna(20471A0594)** in partial fulfilment of the requirements for the award of the degree of **BACHELOR OF TECHNOLOGY** in the department of **COMPUTER SCIENCE AND ENGINEERING** during 2023-2024.

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PROJECT COORDINATOR

Dr.M.Sireesha, M.Tech., Ph.D

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ABSTRACT

One of the most competitive industries nowadays is the restaurant business. Since people have loved sharing meals with one another for generations, Each passing day witnesses a burgeoning demand for dining establishments. Bangalore, renowned for its diverse array of international cuisines, stands as an epitome of delight for food enthusiasts. This study embarks on unraveling the intricacies of food culture, honing in on a specific dataset of restaurants within the locale. Employing advanced data visualization technologies, our endeavor is to dissect the trends and patterns that define Bangalore's dynamic culinary landscape. This essay offers a methodology to comprehend the variables influencing restaurant ratings.

A broad spectrum of methodologies from the realms of machine learning and predictive analytics can be harnessed to forecast restaurant ratings. Leveraging an extensive toolkit encompassing various tools and techniques, we aim to anticipate and understand the intricacies of restaurant ratings, unveiling valuable insights and patterns within the data. Several regression techniques are used to build the model in this work, and the most effective approach is taken into consideration. The outcome of this study aids newly opened eateries in selecting their menu, style, theme, price, target market, etc., ultimately leading to a rise in sales.



A handwritten signature in green ink, appearing to be 'Ulu', is written above the printed name of the Principal.

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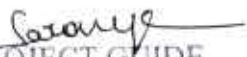
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This is to certify that the project that is entitled with the name "Breast Cancer Prediction Using Machine Learning" is a bonafide work done by the team Samreen Shaik (20471A05B6), Roshini Shaik (20471A05B4), Akshara Pragna Netuluri (20471A05A3) in partial fulfillment of the requirements for the award of the degree of BACHELOR OF TECHNOLOGY in the Department of COMPUTER SCIENCE AND ENGINEERING during 2023-2024.


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ABSTRACT

Breast cancer is a significant global health issue affecting both genders, with higher prevalence among women. Early detection is critical for effective treatment and increased chances of survival. Predictive models serve as sophisticated tools that analyze various factors such as medical history, test results, and genetic data to forecast the likelihood of developing breast cancer or how it may progress over time. Essentially, these models function as aids to healthcare professionals, assisting in the early detection of breast cancer and the formulation of personalized treatment plans.

Numerous factors contribute to an individual's risk of developing breast cancer, including age, family history, hormone levels, reproductive history, and exposure to certain substances or radiation. Regular screenings and awareness campaigns play a pivotal role in spotting potential signs or abnormalities in breast health.

In recent years, researchers have turned to machine learning techniques to enhance breast cancer prediction. These methods involve analyzing extensive datasets to uncover patterns indicative of cancer presence. In a specific study, various machine learning algorithms such as Logistic Regression, Decision Tree, Random Forest, K-Nearest Neighbors (KNN), and Support Vector Machine (SVM) were applied to the Breast Cancer Wisconsin Diagnostic dataset. Among these algorithms, Support Vector Machine (SVM) emerged as the most effective, achieving an impressive accuracy rate of 99.2%.

By leveraging machine learning, healthcare providers aim to enhance early breast cancer detection and customize treatment plans for individual patients. Ongoing research is essential to further refine predictive models and ultimately improve outcomes for individuals affected by breast cancer.



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This is to certify that the project work entitled "BANK LOAN ELIGIBILITY PREDICTION USING MACHINE LEARNING" is a bonafide work done by the team CH. Poojitha(20471A0577), G.Sindhu(20471A0583), K.Hima(20471A0587), in partial fulfillment of the requirements for the award of the degree of BACHELOR OF TECHNOLOGY in the Department of COMPUTER SCIENCE AND ENGINEERING during 2023-2024.

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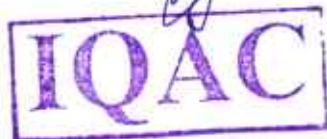


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ABSTRACT

Predicting bank loan eligibility is crucial for financial institutions to make informed decisions and minimize risks. In the banking sector, one of the most tiresome tasks is the loan approval procedure. Machine learning algorithms are transforming operations across various industries, such as finance, real estate, security, and genomics. Advances in technology, including machine learning models, can enhance the efficiency, precision, and speed of loan approval procedures.

The models underwent training on the 'Loan Eligible Dataset,' a historical dataset licensed under the Database Contents License (DbCL) v1.0 and accessible on Kaggle. Using Python programming libraries and Kaggle's Jupyter Notebook cloud environment, the dataset was processed and examined. This paper presents five (5) machine learning algorithms (Logistic Regression, Support Vector Machine, Decision Tree, Random Forest, Gradient Boosting) for predicting loan eligibility. High performance accuracy was demonstrated by our research, with the Random Forest method scoring 96.69%, the highest, and Logistic Regression scoring 76.16%.



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This is to certify that the project work entitled "INTRUSION DETECTION USING MACHINE LEARNING" is a bonafide work done by the team CH. Divya (20471A0578), T. Keerthana (20471A05C1), M. Lahari (20471A05A1) in partial fulfillment of the requirements for the award of the degree of BACHELOR OF TECHNOLOGY in the Department of COMPUTER SCIENCE AND ENGINEERING during 2023-2024.

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ABSTRACT

In the rapidly evolving digital landscape, maintaining the security of computer networks and has become essential. Conventional methods often struggle to remain relevant in light of increasing complexity and diversity of cyber threats. The frameworks of cybersecurity and analysis are necessary to detect and respond to malicious activity, unauthorized access, and threats within a network or system. Its ability to handle complex, unbalanced datasets and optional performance of the few algorithms we used across several domains make it a serious contender for improving intrusion detection accuracy. The primary objective is the prediction of attacks based on the information in dataset. We get the different predictions for from the dataset by the Algorithms like XG Boost, Cat Boost, KNN, SVM, Naive Bayes and QDA. These algorithms are useful to handle the complex dataset like NSL-KDD.

We go into detail about how each algorithm is implemented, beginning with K-Fold, which is essential for maximizing model performance. The gradient boosting methods Cat Boost and XG Boost are well-known for their exceptional accuracy and efficiency in classification applications. To ensure a balanced representation of all attack types in both training and testing sets, the NSL-KDD dataset is divided into two sets for the experimental setting. Each algorithm's performance is evaluated using criteria including support, F1 score, recall, accuracy, and precision. These results offer an all-encompassing perspective on model performance, accounting for factors such as overall accuracy, class imbalance handling capability, and attack type discrimination. Many experiments are conducted with the NSL-KDD dataset to evaluate the performance of various methods. In our investigation, three algorithms XgBoost, CatBoost, and KNN achieved an accuracy score of 99%.



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This is to certify that the project work entitled "YOLO Object Detection Using Deep Learning" is a bonfide work done by the team G. Nagalakshmi, Ratna Manikyanma (20471A0584), K. Princy (20471A0588), R. Anusha (20471A05A8) in partial fulfilment of the requirements for the award of **BACHELOR OF TECHNOLOGY** in the Department of **COMPUTER SCIENCE AND ENGINEERING** during 2023-2024.

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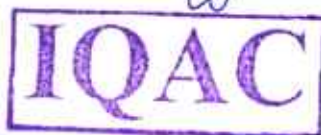
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ABSTRACT

Deep learning provides the ability to train algorithms (models) that can tackle the problems of data classification and prediction based on deriving (learning) knowledge from raw data. Convolutional Neural Networks (CNNs) provides one commonly used approach for image classification and detection. Because of its various advantages, it has been applied in many fields. Object detection is an important technology in deep learning, and object detection based on deep learning has also been studied.

In the area of computer vision, object detection is a complex and dynamic task that includes localizing a single object or detecting multiple objects in the scene images. It is very difficult to find the location of the object in a given picture and mark the object with the appropriate category. In this paper, a method has been developed for object recognition using the pre-trained deep learning model. The objective is, to detect objects by capturing images from a webcam and subsequently detecting objects in a video stream and displaying the count of specific objects, which is specifically designed to be efficient for visualization applications. This process is repeated for every frame of the video stream, enabling real-time object detection for the entire video. The set of YOLO algorithms is known for its accuracy and speed in computer vision tasks. This proposed system provides accurate counting, real-time monitoring, automation, efficiency, and flexibility. The developed method in real-time object detection using the YOLO model using COCO dataset offers a promising solution for efficient and accurate object detection in various applications. This method detects the objects in real-time with much more accuracy compared with existing methods.



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CERTIFICATE

This is to certify that the project that is entitled with the name "CHRONIC KIDNEY DISEASE PREDICTION USING MACHINE LEARNING" is a bonafide work done by the team Jahnvi Chekuri (20471A0576), Sharmila Shaik (20471A05B9), Lakshmi Sravani Ch (20471A0575) in partial fulfillment of the requirements for the award of the degree of **BACHELOR OF TECHNOLOGY** in the Department of **COMPUTER SCIENCE AND ENGINEERING** during 2023-2024.

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ABSTRACT

Chronic Kidney Disease is a serious lifelong condition induced by either kidney pathology or reduced kidney functions. According to the survey in 2021- 2022 for every 10 in 3. people are suffering from this chronic kidney disease. Initially, we considered 21 variables alongside the class property. It enables us to introduce the optimal subset of parameters to feed machine learning to build a set of predictive models. K-Nearest Neighbor, XG-BOOST, Chi-Square, Logistic Regression, Support Vector Machine, Random Forest, and Decision Tree methods are applied for prediction. Among these seven methodologies, the proposed model suggests a Logistic Regression is also suitable for the early prediction of this kind of disease.

Performance measures show that Logistic Regression gives 99 % accuracy, Random Forest (RF) gives 98 % accuracy, Decision Tree gives 98 % accuracy, K-Nearest Neighbor(K-NN) gives 99% accuracy, XG-Boost gives 99 % accuracy, Chi-Square gives 99% accuracy, Support Vector Machine (SVM) give 98% accuracy. The experimental procedure concludes that advances in machine learning and predictive analytics, represent a promising model to recognize intelligent solutions, which in turn prove the ability of predication in kidney disease.




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This is to certify that the main project that is entitled with the name "FLIGHT FARE PREDICTION USING RANDOM FOREST ALGORITHM" is a bonafide work done by the team "Y.Hemasri (20471A0507), A.Sowmya Bramarambika (20471A0568), V.Veethika Bhuvaneshwari (20471A05A6)" in partial fulfilment of the requirements for the award of the degree of BACHELOR OF TECHNOLOGY in the department of COMPUTERSCIENCE AND ENGINEERING during 2023-2024.

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Assoc. Professor

Dr. M. Sireesha, M.Tech., Ph.D
Assoc. Professor

Dr. S.N. Tirumala Rao, M.Tech., Ph.D
Professor

PROFESSOR & HEAD
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ABSTRACT

The globe is full of transportation networks, primarily buses, trains, airplanes, etc. In addition to using the train system, some people also travel by bus and airplane. Generally speaking, ticket prices for airline travel are higher than for other modes of transportation. We can easily move from one place to another because of the journey distance, which makes them more expensive. Also, as a result of ignorance, most people spend more money and are unaware of when prices are high and low. Thus, we are able to forecast the flight cost in our project and determine when it is high and when it is low. Here, we may use the Random Forest machine learning technique to forecast the flight cost by taking into account the origin, destination, departure and arrival times, number of stops, airlines, and other factors. Using the Random Forest Algorithm, we can use this information to estimate flight fares and inform clients of either high or cheap ticket prices. High performance accuracy was demonstrated by our research in Random forest, the obtained accuracy is 82.82%.




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This is to certify that the project work entitled "Facial Emotion Detection Using Deep Learning" is a bonafide work done by the team S. Harshini (20471A05C0), G. Divya (20471A0581), T. Usha Gayathri Raimaji (20471A05C4) in partial fulfillment of the requirements for the award of the degree of **BACHELOR OF TECHNOLOGY** in the Department of **COMPUTER SCIENCE AND ENGINEERING** during 2023-2024.

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ABSTRACT

Facial expressions serve as a powerful form of non-verbal communication, conveying emotions and intentions that are often difficult to articulate verbally. Recognizing these expressions automatically through technology has become increasingly important, with applications ranging from human-computer interaction to mental health assessment. In the field of automatic facial expression recognition (FER), researchers primarily rely on two main approaches: geometry-based and appearance-based methods. These methods involve several stages, including pre-processing, face detection, feature extraction, and expression classification. However, achieving high accuracy rates in FER remains a challenging task. Recent advancements in deep learning, particularly convolutional neural networks (CNNs), have shown promise in addressing the complexities of FER. By leveraging CNNs, researchers aim to accurately identify a range of human emotions, including anger, disgust, fear, happiness, sadness, surprise, and neutral expressions. This involves training CNN models on datasets such as FER 2013, which contains labeled samples representing these expressions.

The project outlined here adopts a CNN-based approach for FER, comprising three main phases: face detection using Haar Cascades, normalization of facial images, and emotion recognition using CNN models trained on the FER 2013 database. By processing facial data through these stages, the system aims to accurately identify and classify the emotions expressed by individuals. Leveraging deep learning techniques for facial expression recognition holds promise for enhancing educational practices. By integrating FER technology into classrooms, educators can gain valuable insights into students' emotional responses, enabling them to tailor their teaching strategies for improved learning outcomes and overall student well-being.




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CERTIFICATE

This is to certify that the project that is entitled with the name "Breast Cancer Prediction Using Machine Learning" is a bonafide work done by the team Samreen Shaik (20471A05B6), Roshini Shaik (20471A05B4), Akshara Pragna Netuluri (20471A05A3) in partial fulfillment of the requirements for the award of the degree of BACHELOR OF TECHNOLOGY in the Department of COMPUTER SCIENCE AND ENGINEERING during 2023-2024.


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ABSTRACT

Breast cancer is a significant global health issue affecting both genders, with higher prevalence among women. Early detection is critical for effective treatment and increased chances of survival. Predictive models serve as sophisticated tools that analyze various factors such as medical history, test results, and genetic data to forecast the likelihood of developing breast cancer or how it may progress over time. Essentially, these models function as aids to healthcare professionals, assisting in the early detection of breast cancer and the formulation of personalized treatment plans.

Numerous factors contribute to an individual's risk of developing breast cancer, including age, family history, hormone levels, reproductive history, and exposure to certain substances or radiation. Regular screenings and awareness campaigns play a pivotal role in spotting potential signs or abnormalities in breast health.

In recent years, researchers have turned to machine learning techniques to enhance breast cancer prediction. These methods involve analyzing extensive datasets to uncover patterns indicative of cancer presence. In a specific study, various machine learning algorithms such as Logistic Regression, Decision Tree, Random Forest, K-Nearest Neighbors (KNN), and Support Vector Machine (SVM) were applied to the Breast Cancer Wisconsin Diagnostic dataset. Among these algorithms, Support Vector Machine (SVM) emerged as the most effective, achieving an impressive accuracy rate of 99.2%.

By leveraging machine learning, healthcare providers aim to enhance early breast cancer detection and customize treatment plans for individual patients. Ongoing research is essential to further refine predictive models and ultimately improve outcomes for individuals affected by breast cancer.



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CERTIFICATE

This is to certify that the main project work, entitled "THYROID DISEASE PREDICTION USING MACHINE LEARNING" is a bonafide work done by CH. Poojitha (20471A0573), B. Vandana (20471A0571), M. Sandhya (20471A0597), in partial fulfilment of the requirements for the award of the degree of **BACHELOR OF TECHNOLOGY** in the Department of **COMPUTER SCIENCE AND ENGINEERING** during 2023-2024.


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ABSTRACT

Thyroid disease includes some conditions such as hypothyroidism, hyperthyroidism, and thyroid nodules, have a significant impact on global health, affecting millions of individuals worldwide. The early and accurate prediction of these thyroid disorders plays a crucial role in facilitating timely interventions and ultimately improving patient outcomes. To address this challenge, our study proposes an integrative approach that harnesses the power of Machine Learning techniques.

For this we utilized a diverse dataset containing patient records, encompassing thyroid function tests, medical history, and demographic information, for training and validating our Machine Learning models. For this we use some algorithms such as Random Forest Classification, KNN, Logistic Regression, Decision tree, Multi-layer Perceptron and Naive Bayes for the prediction thyroid disease. Conclusively, our research underscores the potential of Machine Learning in predicting thyroid diseases, promising enhanced diagnostic accuracy and personalized healthcare strategies. Comparative analysis of these models reveals that decision tree performs better in prediction of thyroid disease with accuracy rate of 99.83. These insights contribute to the dynamic convergence of healthcare that emphasizing the prospect for innovative approaches to elevate patient outcomes in thyroid disease management.




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CERTIFICATE

This is to certify that the project that is entitled with the name "CRIME PREDICTION AND FORECASTING USING MACHINE LEARNING ALGORITHMS" is a bonafide work done by the team P.Lakshmiswathi(20471A05A7), S. Sivathmika(20471A05A9), K.Sravanthi (20471A0589), in partial fulfilment of the requirements for the award of the degree of BACHELOR OF TECHNOLOGY in the Department of COMPUTER SCIENCE AND ENGINEERING during 2022-2023.


PROJECT GUIDE

K.V. Narasimhareddy, M.Tech.
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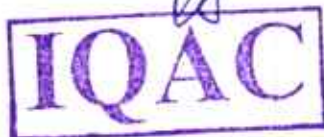

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ABSTRACT

Crime prediction and forecasting play a pivotal role in the modern law enforcement landscape, aiming to preemptively identify and mitigate potential criminal activities. Police departments and other law enforcement agencies grapple with the task of efficiently allocating their resources to areas and times with a higher likelihood of criminal incidents. In this project, we propose a machine learning-based approach to enhance the accuracy and efficiency of crime prediction and forecasting. Leveraging advanced machine learning algorithms, including Random Forest, Decision Tree and Neural Networks, we predict the likelihood of criminal activities occurring in specific locations and timeframes based on various key features and historical crime data. Furthermore, we provide a comparative analysis of different classification and regression algorithms to underscore the effectiveness of machine learning in augmenting crime prediction accuracy. Our findings demonstrate that machine learning algorithms can significantly improve the precision of crime forecasting, aiding law enforcement agencies in proactively addressing and preventing criminal activities. This approach not only enhances the proactive capabilities of law enforcement but also optimizes resource allocation, ensuring a more efficient and targeted approach to crime prevention. By accurately predicting crime hotspots and times, law enforcement agencies can adopt a more strategic and effective crime prevention strategy, ultimately contributing to safer communities and more efficient law enforcement practices.




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CERTIFICATE

This is to certify that the project that is entitled with the name "ROAD ACCIDENT PREDICTION USING MACHINE LEARNING APPROACHES " is a bonafide work done by the team M. Paramesh Reddy (20471A0533), T. Vincent Reddy (20471A0563), Sk. Mohammad Javeed (20471A0536) in partial fulfillment of the requirements for the award of the degree of BACHELOR OF TECHNOLOGY in the Department of COMPUTER SCIENCE AND ENGINEERING during 2023-2024.


PROJECT GUIDE

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ABSTRACT

Road accidents pose a significant threat worldwide, particularly in underdeveloped nations, accounting for a considerable number of reported serious injuries annually. The loss of loved ones due to these accidents underscores the urgent need for a system capable of potentially preventing such tragedies. This research endeavors to address this need by proposing an Accident Prediction system designed to analyze crucial contributing factors and establish correlations between various elements and accident occurrences. Utilizing a dataset comprising government records of accidents within a specific district in India, the study conducted a comparative analysis of several Machine Learning Algorithms to determine their efficacy in accident prediction. Logistic Regression, Random Forest, Decision Tree, and Support Vector Machine were among the algorithms evaluated. Notably, the Random Forest algorithm exhibited the highest accuracy rate of 89.45% when compared against other models, demonstrating promising potential in accident prediction and contributing to advancements in vehicle safety and traffic management.

Keywords: Machine Learning, Accident Prediction, Vehicle Safety, Traffic.



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CERTIFICATE

This is to certify that the project that is entitled with the name "Youtube Spam Comments Detection" is a bonafide work done by the team Kuricheti manoj Kumar(20471A0529), Siva Kumar Jeevan Pal(20471A0558), Sure I v s Pavan Kumar(20471A0560), P Vamsi Krishna Reddy (20471A0545) in partial fulfillment of the requirements for the award of the degree of BACHELOR OF TECHNOLOGY in the Department of COMPUTER SCIENCE AND ENGINEERING during 2023-2024.

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ABSTRACT

With the exponential growth of online content consumption, platforms like YouTube have become prime targets for spamming activities, particularly through comment sections. Spam comments not only degrade user experience but also pose security risks and undermine the credibility of the platform. Consequently, the development of robust spam detection mechanisms is imperative. This research proposes a machine learning-based approach for detecting spam comments on YouTube.

The proposed system leverages a dataset of labeled comments, comprising both spam and legitimate comments, to train and evaluate various machine learning models. Features extracted from the comment text, user metadata, and engagement metrics are utilized to capture the distinguishing characteristics of spam comments.

Several machine learning algorithms, including but not limited to Support Vector Machines (SVM), Random Forest, and Neural Networks, are employed to classify comments as spam or legitimate. Feature selection techniques and hyperparameter optimization are applied to enhance model performance and efficiency.

The effectiveness of the proposed approach is evaluated using standard evaluation metrics such as accuracy, precision, recall, and F1-score. Furthermore, the model's robustness is assessed through cross-validation and testing on unseen data.

Experimental results demonstrate the efficacy of the machine learning-based approach in accurately identifying spam comments on YouTube. The proposed system exhibits promising performance metrics, outperforming traditional rule-based methods and showcasing its potential for real-world applications.




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ABSTRACT

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CERTIFICATE

This is to certify that the project that is entitled with the name "Breast Cancer Detection Through Mammographic Image Analysis" is a bonafide work done by the team S Tejaswini(20471A0559), B.Swarna(20471A0508), M.SriVanya(20471A0540) in partial fulfillment of the requirements for the award of the degree of **BACHELOR OF TECHNOLOGY** in the Department of **COMPUTER SCIENCE AND ENGINEERING** during 2023-2024.

Sd. Rizwana
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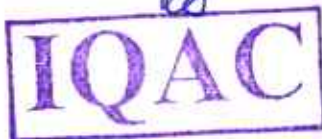
Dr. Sireesha
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Principal

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ABSTRACT

Early recognition and treatment of breast tumors can lower death rates. As of right now, mammography is the most popular and reliable imaging method for diagnosing breast cancer. However, as it can be difficult and error-prone to identify malignant lumps from surrounding tissue, a misinterpretation of a mammography may lead to a false diagnosis rate. We propose constructing a model based on VGG16, as it exhibits the highest accuracy. To ensure optimal accuracy and assess the resilience of VGG16, an ablation research is conducted. To reduce artifacts and improve image quality, a variety of image processing methods are used with the right parameter values. The approach has taken the INbreast dataset which contains 7,632 images which belongs to 2 classes. The model VGG16 was built on the INbreast dataset for breast cancer diagnosis. While working with a small number of complex medical images, our suggested approach which combines image processing, transfer learning, fine-tuning, and ablation study has shown a high accuracy rate in the classification of breast cancer. Through this research, we aim to contribute to the advancement of early breast cancer diagnosis by utilizing the adaptive and efficient characteristics of the VGG16 model on INbreast dataset.




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CERTIFICATE

This is to certify that the project that is entitled with the name "INTEGRATING MACHINE LEARNING ALGORITHMS WITH QUANTUM ANNEALING SOLVERS FOR ONLINE FRAUD DETECTION" is a bonfide work done by the team K. Soma Sekhar Goud (20471A0526), P. Sunil (20471A0538), D. Kruparao (20471A0512) in partial fulfilment of the requirements for the award of BACHELOR OF TECHNOLOGY in the Department of COMPUTER SCIENCE AND ENGINEERING during 2023-2024.

PROJECT GUIDE

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ABSTRACT

The challenge of detecting fraudulent transactions in real time, proposing a novel framework utilizing QML with SVM enhanced by quantum annealing solvers. Evaluating performance against traditional machine learning methods on bank loan dataset the results highlight the superiority of the quantum-enhanced SVM results that were faster and more accurate than previous techniques, while yielding on comparable accuracy to other methods for credit card transactions. Although feature selection only slightly increases accuracy, it dramatically speeds up detection on the dataset gains. This paper is proposed after careful study of algorithms like classification and regression, the algorithms that are useful for prediction model to get the best accurate value. With the quantum Annealing solvers, we are going to predict the fraudulent are non-fraudulent.


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CERTIFICATE

This is to certify that the project work entitled "Predicting Liver Disease Through ML Classification Models" is a bonafide work done by the team Devudubabu Gollu (20471A0519), Abdul Khayum Shaik (20471A0552), Manoj Menyim (20471A0536) in partial fulfillment of the requirements for the award of the degree of BACHELOR OF TECHNOLOGY in the Department of COMPUTER SCIENCE AND ENGINEERING during 2023-2024.



PROJECT GUIDE

K.V. Narasimha Reddy, M.Tech,(Ph.D).
Asst. Professor



PROJECT CO-ORDINATOR

Dr. M. Sireesha, M.Tech,P.Jd.
Assoc. Professor



HEAD OF THE DEPARTMENT

Dr. S. N. Tirumala Rao, M.Tech., Ph.D.,
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ABSTRACT

Liver disease is a major global cause of mortality, affecting a significant portion of the population worldwide. Various factors such as obesity, undiagnosed hepatitis infections, and alcohol misuse can contribute to liver damage, leading to serious complications like abnormal nerve function, bleeding, kidney failure, jaundice, and liver encephalopathy. Early diagnosis is crucial for effective treatment, and modern technologies like sensors are being utilized for early detection of infections. The objective of this study is to assess the effectiveness of different Machine Learning (ML) algorithms in reducing the cost and complexity associated with diagnosing chronic liver disease. ML is a powerful tool used to uncover patterns in vast datasets, enabling automated decision-making processes. The dataset used in this research comprises information from liver patients, obtained from the UCI Repository, making it a supervised learning task. By leveraging historical patient data and employing various ML algorithms such as Logistic Regression, Decision Trees, Random Forests, K-Nearest Neighbors (KNN), Gradient Boosting, Extreme Gradient Boosting (XGBoost), and LightGBM, this study aims to predict future patient outcomes accurately. Feature selection techniques were applied to enhance algorithm performance, resulting in promising accuracy rates across the different models tested.



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This is to certify that the project that is entitled with the name "ROAD ACCIDENT PREDICTION USING MACHINE LEARNING APPROACHES " is a bonafide work done by the team M. Paramesh Reddy (20471A0533), T. Vincent Reddy (20471A0563), Sk. Mohammad Javeed (20471A0556), in partial fulfillment of the requirements for the award of the degree of BACHELOR OF TECHNOLOGY in the Department of COMPUTER SCIENCE AND ENGINEERING during 2023-2024.


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**V. Karuna Kumar, MCA., M.Tech.,
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PROJECT COORDINATOR

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ABSTRACT

Road accidents pose a significant threat worldwide, particularly in underdeveloped nations, accounting for a considerable number of reported serious injuries annually. The loss of loved ones due to these accidents underscores the urgent need for a system capable of potentially preventing such tragedies. This research endeavors to address this need by proposing an Accident Prediction system designed to analyze crucial contributing factors and establish correlations between various elements and accident occurrences. Utilizing a dataset comprising government records of accidents within a specific district in India, the study conducted a comparative analysis of several Machine Learning Algorithms to determine their efficacy in accident prediction. Logistic Regression, Random Forest, Decision Tree, and Support Vector Machine were among the algorithms evaluated. Notably, the Random Forest algorithm exhibited the highest accuracy rate of 89.45% when compared against other models, demonstrating promising potential in accident prediction and contributing to advancements in vehicle safety and traffic management.

Keywords: Machine Learning, Accident Prediction, Vehicle Safety, Traffic.



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CERTIFICATE

This is to certify that the project entitled **SENTIMENTAL ANALYSIS OF TWITTER DATA USING NLP** is a bonafide work done by the team **S. Akshaya Kumar (20471A05M7), A. Gangadhar Rao (21475A0523), R. Narasimha Rao (20471A0506)** in partial fulfillment of the requirements for the award of the degree of **BACHELOR OF TECHNOLOGY** in the Department of **COMPUTER SCIENCE AND ENGINEERING** during 2023-2024.



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PROJECT CO-ORDINATOR

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Dr. S. N. Tirumala Rao, B.Tech, M.Tech, Ph.D.
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ABSTRACT

Sentiment analysis plays a crucial role in understanding the emotions, opinions, and sentiments expressed by individuals across various platforms, particularly in social media. It aids in enhancing customer communication and refining output strategies for content creators. This computational process involves gathering data, cleaning it through preprocessing techniques, analyzing it, and interpreting the results using machine learning algorithms. However, existing sentiment analysis techniques face challenges such as noisy training data, complex language nuances, and scalability issues. Despite the utilization of algorithms like Naive Bayes, Logistic Regression, and Support Vector Machine, these challenges persist.

It discusses the necessity of sentiment analysis in contemporary contexts, highlighting its significance in deciphering user sentiments effectively. It then delves into the shortcomings of existing techniques, including suboptimal accuracy and scalability concerns, which hinder efficient sentiment analysis. Finally, the document presents the results obtained from implementing various machine learning algorithms, emphasizing the superiority of Random Forest in achieving higher accuracy compared to others. Through detailed evaluation and analysis, this project documentation provides insights into the effectiveness of sentiment analysis methods and offers recommendations for future improvements in sentiment analysis techniques.



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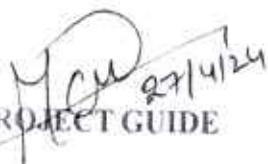
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DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING



CERTIFICATE

This is to certify that the project work entitled "FARMING MADE EASY USING MACHINE LEARNING" is a bonafide work done by the team P.Lahari (20471A05M3), G. Sai kalpana (20471A05K8), CH. Krishna Sai Sreeja (20471A05N8), Sk.Nabi Wajiha (20471A05N0), in partial fulfillment of the requirements for the award of the degree of BACHELOR OF TECHNOLOGY in the Department of COMPUTER SCIENCE AND ENGINEERING During 2023-2024.


PROJECT GUIDE

M. Venkatarao, B.Tech, M.Tech.
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PROJECT CO-ORDINATOR

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Assoc. Professor


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ABSTRACT

Agriculture serves as the backbone of our country's economy. However, in recent years, the sector has faced challenges due to unpredictable climate patterns and fluctuating price trends. Farmers often bear the brunt of these uncertainties, leading to crop spoilage and significant financial losses. Moreover, farmers may not always be aware of the most suitable crop types for their land, further complicating their situation. To address these issues, a comprehensive and user-friendly system has been developed. This system leverages Machine Learning's Decision Tree Regression Algorithm to predict crop prices accurately. The key attributes considered for price prediction include rainfall, wholesale price index, month, and year. By providing advance price forecasts, this system empowers farmers to make informed decisions, thereby increasing their profitability and contributing to the country's economy. In addition to price prediction, this system incorporates modules for weather forecasting, crop recommendation, fertilizer recommendation, and a shop, chat portal, and guide.

The crop recommendation module suggests suitable crop types based on the land's characteristics, helping farmers maximize their yield. The crop yield prediction module forecasts the expected yield based on various factors, aiding farmers in planning their harvest and resources accordingly. The fertilizer recommendation module suggests appropriate fertilizers based on soil health and crop requirements, optimizing crop growth and quality. Overall, this system serves as a valuable tool for farmers, providing them with essential information and insights to improve their farming practices and increase their profitability. By integrating advanced technologies like Machine Learning, this system has the potential to revolutionize the agricultural sector and contribute significantly to the country's economic growth.



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CERTIFICATE

This is to certify that the project that is entitled "Diabetes Prediction: A Unique Machine Learning Approach" is a Bonafide work done by the team Sk. Suhana (20471A05N1), M. Deepthi (20471A05L9), M. Lakshmi Triveni (20471A05M0) in partial fulfillment of the requirements for the award of the degree of **BACHELOR OF TECHNOLOGY** in the Department of **COMPUTER SCIENCE AND ENGINEERING** during 2023-2024.


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ABSTRACT

Diabetes is a condition characterized by high blood glucose levels, which can lead to various health issues. It is prevalent across all age groups worldwide. While there is no cure for diabetes, it is crucial to take steps to manage the condition and maintain good health.

Hyperglycaemia, or high blood glucose, is a common consequence of uncontrolled diabetes and can cause serious damage to various body systems, particularly the nerves and blood vessels. The main types of diabetes are type 1, type 2, and gestational diabetes.

Machine learning enables software applications to enhance their accuracy in predicting outcomes without the need for explicit programming. Utilizing machine learning, we aim to develop a system capable of early prediction of a patient's diabetes risk level with high accuracy by integrating the outcomes of various machine learning techniques.

This project focuses on various machine learning algorithms such as Support Vector Machine, K-Nearest Neighbor, Random Forest, etc., using a dataset sourced from Kaggle's repository. The objective is to select the most accurate and precise prediction algorithm, which is implemented in Python and executed in the Jupyter development environment.




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This is to certify that the project work entitled "Predict Customer Purchases on Black Friday Sales Prediction using Machine Learning" is a Bonafide work done by the team B. Venkata Gopi Krishna(20471A05K1), SK. Imran (20471A05O1), P. Prasanth (21475A0514) in partial fulfillment of the requirements for the award of the degree of **BACHELOR OF TECHNOLOGY** in the Department of **COMPUTER SCIENCE AND ENGINEERING** during 2023-2024.




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ABSTRACT

Machine learning has emerged as a transformative research field in recent years, offering powerful tools for decision-making. By learning from past data, machine learning models can make informed predictions about future outcomes, enhancing their accuracy over time. This progress has enabled a wide array of applications, from facial recognition to natural language processing, revolutionizing various industries.

In the context of retail, predicting customer purchase patterns based on demographic information is a key objective. This study aims to design a predictive model specifically tailored for predicting Black Friday sales. The model's development involves testing with various regression techniques to ensure its effectiveness. Ultimately, a XGB regression-based approach is adopted for its predictive capabilities. Implementing such a model could significantly benefit sales administration, particularly during high-traffic events like Black Friday. The algorithm we proposed was XG Boost regressor based approach used to predict Black Friday sales.




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DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING.

CERTIFICATE



This is to certify that the major project entitled "THE EFFICIENT SEGMENTATION TECHNIQUE TO IDENTIFY THE IMAGE FORGERY BASED ON FEATURE POINT OF EXTRACTION" is the bona fide work carried out by Ms. P .Gayathri (20471A0437), Mr. G. Rajasekhar (20471A0415), Ms. P. Nikhila (20471A0444), Ms. K. Jahnavi (20471A0424), Mr. F. Manikanta (20471A0412) in partial fulfilment of therequirements for the award of the degree Bachelor of Technology in Electronics and Communication Engineering from Jawaharlal Nehru Technological University Kakinada,during the year 2023-24 under my supervision and guidance.


Project Guide

Dr. Sk. BAJID VALI


Head of the Department

Dr. V. VENKATA RAO




External Examiner


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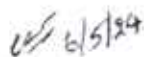
DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING.

CERTIFICATE



This is to certify that the mini project entitled INDUSTRIAL INDOOR AIR QUALITY MONITORING ROBOTIC SYSTEM WITH ALERTS USING IOT is the bona fide work carried out by Mr. P.Aswanth (20471A0443), Mr. K.Karthik (20471A0425), Mr. U.Hari Krishna (20471A0455), Mr. Ch.Laksh (20471A0406), Mr.K.Prabhas(20471A0420) in partial fulfilment of the requirements for the award of the degree Bachelor of Technology in Electronics and Communication Engineering from Jawaharlal Nehru Technological University Kakinada, Kakinada during the year 2023- 24 under my supervision and guidance.


Project Guide
(Dr. A. Venkata Nageswara Rao)


Head of the Department
(Dr. V. VENKATARA0)


External Examiner




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This is to certify that the project work entitled **IOT BASED COAL MINE SAFETY MONITORING AND ALERTING SYSTEM** is the **bonafide** work carried out by **Mr. P. Jithendra Sai Baba (20471A0445), Mr. V. Vamsi(20471A0457), Mr. K. Nagul Meera(20471A0423), Ms. Sk. Sajila (20471A0450), Mr. P. Pavan Kumar(20471A0441), Ms. K. Mounika (20471A0421),** in **partial fulfilment** of the requirements for the award of the degree Bachelor of Technology in **Electronics and Communication Engineering** from **Jawaharlal Nehru Technological University Kakinada, Kakinada** during the year **2023-24** under my supervision and guidance.

Guide
(Mr. G. RAMANA REDDY)

08/05/24

Head of the Department
(Dr. V. VENKATA RAO)

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DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING

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This is to certify that the major project entitled WATER LEVEL SENSING & CONTROLLING SYSTEM USING IOT is the bona fide work carried out by Mr.V.Bala Krishna(20471A0456), Mr.S.Naga Satish(20471A0451), Mr.T.Rakesh(20471A0453), Mr.A.Ashok Kumar(20471A0401), Mr.Mayank(20471A0459) in partial fulfilment of the requirements for the award of the degree Bachelor of Technology in Electronics and Communication Engineering from Jawaharlal Nehru Technological University Kakinada during the year 2023-24 under my supervision and guidance.

Project Guide

Mr. J.NARASIMHA RAO

Head of the Department

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This is to certify that the main project work entitled "An IoT based Air Pollution Monitoring System For Smart Cities" is the bonafide work carried out by Mr. N. H. Ayyangar (20471A0436), Mr. K. V. P. S. Manikanta (20471A0426), Mr. P. Praveen (20471A0440), Mr. K. Charan Reddy (20471A0422), Mr. K. Mallikarjun Naik (20471A0428) in partial fulfilment of the requirements for the award of the degree Bachelor of Technology in Electronics and Communication Engineering from Jawaharlal Nehru Technological University Kakinada, Kakinada during the year 2023-24 under my supervision and guidance.


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Head of the Department
(Dr. V. VENKATA RAO)


External Examiner




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DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING

CERTIFICATE



This is to certify that the project work entitled "DESIGN OF A 4 - BIT ALU WITH ENHANCED SECURITY" is the bonafide work carried out by Ms. JAVVAJI SIRISHA (20471A0419), Mr. MARKAPURAPU JOSEPH DAVID (20471A0433), Mr. IBARAPATNAM SIVA NAGESWAR RAO (20471A0416), Ms. SHAIK MUSFIRA (20471A0449), Mr. MUTYAM ASHOK (20471A0435) in partial fulfillment of the requirements for the award of the degree Bachelor of Technology in Electronics and Communication Engineering from Jawaharlal Nehru Technological University Kakinada, Kakinada during the year 2023-24 under my supervision and guidance.

Project Guide

(Mr. M. HARI HARANADHA SASTRY)

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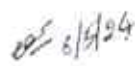
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ENGINEERING

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This is to certify that the project entitled DESIGN OF HIGH PERFORMANCE GDI-ALU USING 10T ADDER CELLS is the bonafide work carried out by Mr. D. TIRUMALARAO (20471A0411), Ms. D. KAVITHA (20471A0409), Mr. K. RAMESH (20471A0429), Ms. U. YAMUNA (20471A0454), Mr. V. VANISHI (20471A0458), Mr. G. GOPICHAND (20471A0460) in partial fulfillment of the requirements for the award of the degree Bachelor of Technology in Electronics and Communication Engineering from Jawaharlal Nehru Technological University Kakinada, Kakinada during the year 2023-24 under my supervision and guidance.


Guide
(Dr. B. SUNEETHA)


Head of the Department
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DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING

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This is to certify that the project entitled Design of Back-Gate-Input clocked comparator using 45-nm CMOS technology is the Bonafide work carried out by Ms. B. Vaishnavi (20471A0404), Mr. Sk. Mohammad Gouse (20471A0408), Mr. J. Prasanna Sai (20471A0418), Mr. J. Manohar Devendar (20471A0417), Mr. R. Venkata Rao (20471A0446) in partial fulfillment of the requirements for the award of the degree Bachelor of Technology in Electronics and Communication Engineering from Jawaharlal Nehru Technological University Kakinada, Kakinada during the year 2023-24 under my supervision and guidance.

Dr. V. Venkata Rao
Project Guide
(Dr. V. Venkata Rao)

Dr. V. Venkata Rao
Head of the Department
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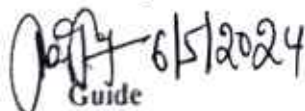
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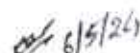
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This is to certify that the project entitled Design and Implementation of a Human Detector and Counting System using MATLAB is the Bonafide work carried out by Chandra Sekhar Vamsi Palla (20471A0438), Mukhesh Kumar Gollamudi (20471A0413), Venkata Ramireddy Ponugoti (20471A0442), Kishore Thota (20471A0452), Gangadhar Deekonda (20471A0410) in partial fulfilment of the requirements for the award of the degree Bachelor of Technology in Electronics and Communication Engineering from Jawaharlal Nehru Technological University Kakinada during the year 2023-24 under my supervision and guidance.


Guide

Dr. Y. Jaipal Reddy Ph. D


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Head of the Department

Dr. V. Venkata Rao Ph.D


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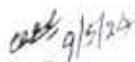
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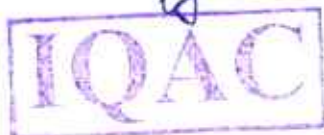



This is to certify that the main project entitled SMART WASTE MANAGEMENT SYSTEM USING IOT is the bonafide work carried out by Ms. B.Hymavathi (20471A0405), Ms. B. Vineetha (20471A0403), Mr. M. Prasanth Kumar (20471A0432), Mr.Ch. Sai Deepak (20471A0408) and Mr. N. Saurbush Kumar (20471A0447) in partial fulfilment of the requirements for the award of the degree Bachelor of Technology in Electronics and Communication Engineering from Jawaharlal Nehru Technological University Kakinada, Kakinada during the year 2023-2024 under my supervision and guidance.


Project Guide
(Dr. K. Raju)


Head of the Department
(Dr. V. VENKATA RAO)


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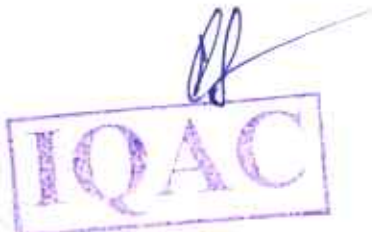


This is to certify that the mini project entitled "BRAIN TUMOUR DETECTION USING K-MEANS CLUSTERING" is the bona fide work carried out by Ms.S.VSR BhavanaPriya(20471A0498),Ms.K.Maheswari(20471A0481),Ms.Y.Sirisha(20471A04B7), Mr. Sk. Khayyum (20471A04A3), Mr. Sk. Jan Saida (20471A04A2) in partial fulfilment of the requirements for the award of the degree Bachelor of Technology in Electronics and Communication Engineering from Jawaharlal Nehru Technological University Kakinada, Kakinada during the year 2023-24 under my supervision and guidance.


Project Guide
Dr. Shaik. Bajid Vali


Head of the Department
Dr. V. Venkata Rao


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This is to certify that the project entitled DESIGN OF LOW POWER AND HIGH SPEED CMOS D FLIP FLOP USING HYBRID AMPLIFIER TECHNIQUES is the bonafide work carried out by Ms. P. Deepika (20471A0497), Ms. P. Lakshmi Prasanna (20471A0491), Mr. T. Uday Kumar (20471A04B2), Mr. P. Karthik (20471A0490) and Ms. D. Naga Rohini (20471A0468) in partial fulfilment of the requirements for the award of the degree Bachelor of Technology in Electronics and Communication Engineering from Jawaharlal Nehru Technological University Kakinada, Kakinada during the year 2023-24 under my supervision and guidance.

Dr. V. Venkata Rao
Guide
(Dr. V. VENKATA RAO)

Dr. V. Venkata Rao
Head of the Department
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External Examiner
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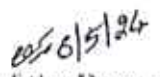
DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING

CERTIFICATE



This is to certify that the project entitled "EFFICIENT ARCHITECTURE FOR SIGNED CARRY SAVE MULTIPLICATION" is the bonafide work carried out by Ms.Syed BeebiAyesha (20471A04A9), Ms.Bandarupalli Pujitha (20471A0464), Mr.Pattan Imran Khan (20471A0494), Mr.Gumma Karthik (20471A0476), Mr.Koppolu SivaramaKrishna (20471A0484), Mr.Kondepati Siva Nageswararao (20471A04B9) in partial fulfilment of the requirements for the award of the degree Bachelor of Technology in Electronics and Communication Engineering from Jawaharlal Nehru Technological University Kakinada, Kakinada during the year 2023-24 under my supervision and guidance.


Guide
(Dr. B. SUNEETHA)


Head of the Department
(Dr. V. VENKATA RAO)




External Examiner


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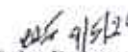
DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING

CERTIFICATE



This is to certify that the mini project entitled DRONE TECHNOLOGY USED FOR SURVEILLANCE AND NIGHT PATROLLING is the bonafide work carried out by Ms. Sk.Parveen (20471A04A4), Mr. Sk.Shareef (20471A04A5), Ms. V.Deepthi (20471A04B6), Mr. P.Shrimani Teja (20471A0495), Mr. K. Hemanth (20471A0485) in partial fulfilment of the requirements for the award of the degree Bachelor of Technology in Electronics and Communication Engineering from Jawaharlal Nehru Technological University Kakinada, Kakinada during the year 2023-24 under my supervision and guidance.


Project Guide
(Dr.A.V.Nageswarao Rao)


Head of the Department
(Dr. V. Venkata Rao)

External Examiner




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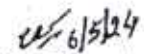
CERTIFICATE



This is to certify that the main project entitled HUMAN ACTION RECOGNITION BY CONCEPTUAL FEATURES is the bona fide work carried out by Ms.P.Jahnavi(20471A0496),Ms.G.Hemalatha(20471A0473),Mr.U.Anil(20471A04B4), Mr.D.Mabu Subhani(20471A0471) and Mr.G.Dhanunjay(20471A077) in partial fulfilment of the requirements for the award of the degree Bachelor of Technology in Electronics and Communication Engineering from Jawaharlal Nehru Technological University Kakinada, Kakinada during the year 2023-24 under my supervision and guidance.


Project Guide


(Dr. V. JAIPAL REDDY)


Head of the Department

(Dr. V. VENKATA RAO)


External Examiner




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DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING

CERTIFICATE



This is to certify that the main project entitled SMART DIGI BULLETIN DISPLAY is the bonafide work carried out by Ms. S.Nikhitha (20471A04A7), Mr. N.Manjunath(20471A0489), Mr. I.Mahesh (20471A0478), Ms. Sk.Umme Saleema (20471A04A6), Ms. P. Sameerabi (20471A0493) in partial fulfilment of the requirements for the award of the degree Bachelor of Technology in Electronics and Communication Engineering from Jawaharlal Nehru Technological University Kakinada, Kakinada during the year 2023-24 under my supervision and guidance.

Project Guide
(Mr.B.Balaji Naik)

Head of the Department
(Dr.V.Venkata Rao)

External Examiner



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DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING

CERTIFICATE



This is to certify that the project work entitled "E-AGRICULTURE: IRRIGATION SYSTEM BASED ON WEATHER FORECASTING USING IOT" is the bonafide work carried out by Mr. SUNKARA MANIKANTA SATYA SAI (20471A04A8), Mr. DEEVI MIDHUN SAI (20471A0470), Mr. MANEPALLI NAVEEN (20471A0487), Mr. BADRI VENKATA RAMESH (20471A0463), Mr. SHAIK BASHEER (20471A04A1), and Mr. KODAVANDLA SRINATH (20471A0482) in partial fulfillment of the requirements for the award of the degree Bachelor of Technology in Electronics and Communication Engineering from Jawaharlal Nehru Technological University Kakinada, Kakinada during the year 2023-24 under my supervision and guidance.

Project Guide
(Mr. V. NAVEEN RAJA)

Head of the Department
(Dr. V. VENKATA RAO)

External Examiner



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DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING

CERTIFICATE



This is to certify that the major project entitled "IOT BASED OBJECT DETECTION FOR E-VEHICLE" is the bona fide work carried out by Mr.G.HanumaReddy(20471A0475),Mr.K.Venkatesh(20471A0480),Mr.K.Purna ChandraRao(20471A0483),Mr.S.Najay(20471A0499),Mr.J.Sunil(20471A0479) in partial fulfilment of therequirements for the award of the degree Bachelor of Technology in Electronics andCommunication Engineering from Jawaharlal Nehru Technological University Kakinada during the year 2023-24 under my supervision and guidance.


Project Guide

Mr. Ch. Adi Babu


Head of the Department

Dr.V. Venkata Rao




External Examiner


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DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING

CERTIFICATE



This is to certify that the project work entitled "DESIGN AND IMPLEMENTATION OF MODIFIED HIGH SPEED 32-BIT VEDIC MULTIPLIER" is the bonafide work carried out by Ms. T. HARITHA (20471A04B3), Mr. T. LAKSHMI NARAYANA (20471A04B1), Mr. G. SUSHIMA (20471A0474), Mr. U. VENU BABU (20471A04B5), and Mr. Y. LAKSHMI THIRUPATHAMMA (20471A0B8) in partial fulfillment of the requirements for the award of the degree Bachelor of Technology in Electronics and Communication Engineering from Jawaharlal Nehru Technological University Kakinada, Kakinada during the year 2023-24 under my supervision and guidance.


Project Guide
(Mr. CH. SESU KUMAR)


Head of the Department
(Dr. V. VENKATA RAO)


External Examiner




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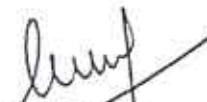
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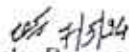
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This is to certify that the main project work entitled TRIPLE NOTCHED UWB MONOPOLE ANTENNA USING EBG STRUCTURES AND CLOSED π SHAPE SLOT is the bonafide work carried out by Ms.P.Ravali(20471A0492), Ms.Ch.Neeraja (20471A0466), Ms.K.UdayaSadhvika (20471A0486), Mr.E.Abhinav (20471A0472), Mr.D.V.Sai kumar (20471A0469) in partial fulfillment of the requirements for the award of the degree Bachelor of Technology in Electronics and Communication Engineering from Jawaharlal Nehru Technological University Kakinada, Kakinada during the year 2023-24 under my supervision and guidance.


Project Guide
(Dr. Y.V. Lakshmaiah)


Head of the Department
(Dr. V. Venkata Rao)




External Examiner


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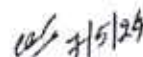
CERTIFICATE



This is to certify that the project entitled **A MODIFIED FRAMEWORK TO ESTIMATE BREATHING RATE FROM ECG, PPG, BPSIGNALS** is the Bonafide work carried out by B. Amani (20471A0464), B. Nandini (20471A0462), SK. B. Jareena (20471A04A0), T. Bharath (20471A04B0), N. Stephen Paul (20471A0488), M. Kumara Sai Krishna (20471A04C0) in partial fulfilment of the requirements for the award of the degree Bachelor of Technology in Electronics and Communication Engineering from Jawaharlal Nehru Technological University Kakinada, Kakinada during the year 2022-23 under my supervision and guidance


Guide

(Dr. SK. EBRAHEEM KHALEELULLA)


Head of the Department
(Dr. V. VENKATARA0)


External Examiner





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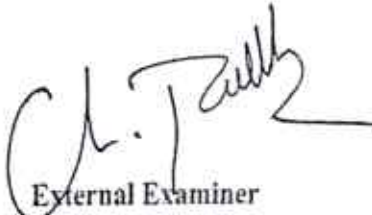
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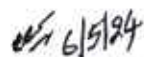


This is to certify that the project entitled " IOT BASED FOREST FIRE DETECTION AND PREVENTION SYSTEM " is the Bonafide work carried out by Ms. M. Subhasri (20471A04F8), Mr. Ch. Navaneesh (20471A04C7), Mr. M. Hemanth (20471A04F4), Mr. P. Hari Prasad (20471A04G5) and Mr. K. Syam Kumar (20471A04F0) in partial fulfilment of the requirements for the award of the degree Bachelor of Technology in Electronics and Communication Engineering from Jawaharlal Nehru Technological University Kakinada, Kakinada during the year 2023-24 under my supervision and guidance.


Guide
(Dr. K. Raju)




External Examiner


Head of the Department
(Dr. V. Venkata Rao)


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DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING

CERTIFICATE



This is to certify that the mini project entitled IMAGE RETRIVAL USING COMBINATION OF SHAPE AND TEXTURE FEATURE is the bona fide work carried out by Ms. G. Mounika (20471A04D9), Mr. G. Rahul (20471A04E0), Mr. D. Santhosh (20471A04D7), Mr. D. Lokesh Manohar (20471A04D3), Mr. R. Jeevan Babu (20471A04G8) in partial fulfilment of the requirements for the award of the degree Bachelor of Technology in Electronics and Communication Engineering from Jawaharlal Nehru Technological University Kakinada, Kakinada during the year 2022-23 under my supervision and guidance.

Project Guide

(Dr. J. BRAHMAIAH NAIK)

Head of the Department

(Dr. V. VENKATA RAO)

External Examiner



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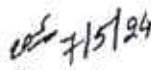
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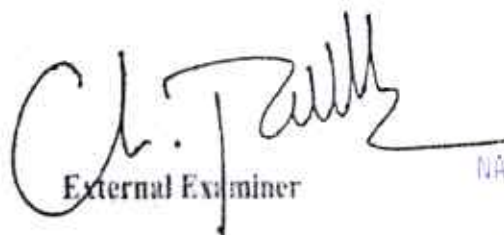



This is to certify that the mini project entitled IMPLEMENTATION OF IMAGE RETRIEVAL USING COMBINATION OF COLOR AND TEXTURE FEATURE is the bonafide work carried out by Ms. K. Venkata Ramya Sri (20471A04F1), Ms. Sk.B. Ajima (20471A04H1), Mr. I. Bhargav Sai (20471A04E5), Mr. K. Sandeep (20471A04E9), Mr. D. Sai Krishna (20471A04D2) in partial fulfilment of the requirements for the award of the degree Bachelor of Technology in Electronics and Communication Engineering from Jawaharlal Nehru Technological University Kakinada, Kakinada during the year 2023- 24 under my supervision and guidance.


Project Guide

(Dr. J. BRAHMAIAH NAIK)


Head of the Department
(Dr. V. VENKATA RAO)


External Examiner


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DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING

CERTIFICATE



This is to certify that the project entitled DESIGN AND ANALYSIS OF ADIBATIC MULTIPLIER AND DEMULTIPLIER USING TCRL & HCRL LOGICS is the bonafied work carried out by Ms. D. Venkata Naga Meghana (20471A04D5), Mr. R. Raju (20471A04G7), Mr. V. Yaswanth (20471A04H8), Ms. SK. T. Shahamaz (20471A04H2), Ms. G. Jayasri (20471A04E1), Mr. SK. Asif (20471A04H0) in partial fulfillment of the requirements for the award of the degree Bachelor of Technology in Electronics and Communication Engineering from Jawaharlal Nehru Technological University Kakinada, Kakinada during the year 2023-24 under my supervision and guidance.

T. Indira
Guide
(Mrs. T. INDIRA)

06/15/24
Head of the Department
(Dr. V. VENKATA RAO)

A. Paul
External Examiner



Principal
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Pradesh.

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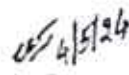
CERTIFICATE



This is to certify that the project work entitled DESIGN OF BIO-SIGNAL BASED STRESS DETECTION SYSTEM USING MACHINE LEARNING TECHNIQUES is the Bonafide work carried out by Mr. G. Sai Prakash (20471A04E2), Mr. P. Venkateswarlu (20471A04G1), Ms. G. Harshitha (20471A04E4), Mr. D. Abraham (20471A04D6), Ms. G. Ushasri (20471A04E3), and Mr. B. Raja Simha (20471A04C6) in partial fulfillment of the requirements for the award of the degree Bachelor of Technology in Electronics and Communication Engineering from Jawaharlal Nehru Technological University Kakinada during the year 2023-24 under my supervision and guidance.


Guide

(Dr. SK. EBRAHEEM KHALEELULLA)


Head of the Department
(Dr. V. VENKATA RAO)


External Examiner




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DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING



CERTIFICATE

This is to certify that the project entitled DESIGN AN AREA EFFICIENT KOGGE STONE ADDER USING PASS TRANSISTOR LOGIC is the bonafide work carried out by MS. V. Sri Lakshmi (20471A04H7), Mr. P. Abhinav (20471A04G3), Mr. k. Bhargav (20471A04E7), Ms. S. Akshaya (20471A04H3) and Mr. Ch. Venkata prasad (20471A04C8) in partial fulfilment of the requirements for the award of the degree Bachelor of Technology in Electronics and Communication Engineering from Jawaharlal Nehru Technological University Kakinada, Kakinada during the year 2023-24 under my supervision and guidance.

T. Indira
Guide

(Mrs. T. INDIRA)

Dr. V. Venkata Rao
Head of the Department
(Dr. V. VENKATA RAO)

Ch. Paul
External Examiner

Dr. V. Venkata Rao
PRINCIPAL

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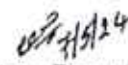
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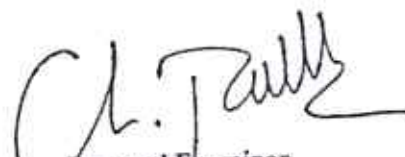
CERTIFICATE



This is to certify that the project entitled **HEARTBEAT AND ALCOHOL DETECTION IN SMART TRANSPORTATION USING IOT** is the bona fide work carried out by Mr.M.SivaRaju (20471A04F7), Ms.G.Vyshnavi (20471A04D8), Mr.CH.GouseGoud (20471A04D1), Mr.A.Srikanth (20471A04C1), Mr.J.Kishore (20471A04E6) in partial fulfilment of the requirements for the award of the degree Bachelor of Technology in Electronics and Communication Engineering from Jawaharlal Nehru Technological University Kakinada, Kakinada during the year 2023-24 under my supervision and guidance.


Guide
(Mr. Sk. Md. Shareef)


Head of the Department
(Dr. V. VENKATA RAO)


External Examiner




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CERTIFICATE



This is to certify that the project work entitled **IoT BASED PREGNANCY WOMEN HEALTH MONITORING AND ASSISTANCE SYSTEM FOR PRENATAL CARE** is the bonafide work carried out by **Mr.K.Avinash (20471A04E8), Mr.A.Vishnu Vardhan Reddy (20471A04C4), Mr.B.Tirupathi Reddy (20471A04H9), Mr.K.Lokesh (20471A04F2), Mr.Ch.Gangadhara Rao (20471A04C9), Mr.Sk.Shoyab (20471A04I0)** in partial fulfillment of the requirements for the award of the degree **Bachelor of Technology in Electronics and Communication Engineering** from **Jawaharlal Nehru Technological University Kakinada, Kakinada** during the year **2023-24** under my supervision and guidance.


Project Guide

(Mr. P. JAYA BABU)


Head of the Department

(Dr. V. VENKATA RAO)


External Examiner




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DEPARTMENT OF ELECTRONICS AND COMMUNICATION
ENGINEERING

CERTIFICATE



This is to certify that the mini project entitled AUTOMATIC FAULT
DETECTION OF TRANSMISSION LINES USING IoT is the bonafide work
carried out by Ms. T. Ramya (20471A04H6), Ms. P. Rachana (20471A04G2), Mr.
M. Sravan Kumar (20471A04F6), Ms. N. Jyothi (20471A04F9), Mr. P. Ganesh
(20471A04G4) in partial fulfilment of the requirements for the award of the degree
Bachelor of Technology in Electronics and Communication Engineering from
Jawaharlal Nehru Technological University Kakinada, Kakinada during the year
2023-24 under my supervision and guidance.

Dr. V. Venkata Rao
Project Guide
(Dr. V. VENKATA RAO)

Dr. V. Venkata Rao
Head of the Department
(Dr. V. VENKATA RAO)

Ch. Paul
External Examiner

Dr. V. Venkata Rao
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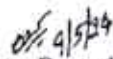
CERTIFICATE



This is to certify that the project entitled MONITORING THE MOVEMENTS OF WILD ANIMALS AND ALERT SYSTEM USING IOT FOR SMART AGRICULTURE PROTECTION is the bonafide work carried out by Ms.A. Pavani Lakshmi (20471A04C3), Ms.D. Tulasi (20471A04D4), Mr.P. Mohan krishna (20471A04G6), Ms.B. Sandeepa(20471A04C5), Mr.P. Sai Chandu (20471A04G0) in partial fulfilment of the requirements for the award of the degree Bachelor of Technology in Electronics and Communication Engineering from Jawaharlal Nehru Technological University Kakinada, Kakinada during the year 2023-24 under my supervision and guidance.


Guide

(Mrs.G. Rajavali)M-Tech


Head of the Department
(Dr. V. VENKATA RAO)




External Examiner


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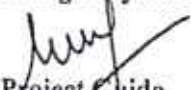
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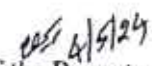
DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING

CERTIFICATE



This is to certify that the main project entitled Multi-Band Rectangular Patch Microstrip Antenna Design with UWB Notch for Wideband Applications is the bonafide work carried out by Mr. S. Bharath Kumar (20471A04H4), Mr. Ch. Ravi Kumar (20471A04D0), Mr. T.Sateesh (20471A04H5), Mr. A.Sandeep (20471A04C2), Mr. S. Deepak (20471A04G9) in partial fulfilment of the requirements for the award of the degree Bachelor of Technology in Electronics and Communication Engineering from Jawaharlal Nehru Technological University Kakinada, Kakinada during the year 2023-24 under my supervision and guidance.


Project Guide
(Dr. Y.V. Lakshmaiah)


Head of the Department
(Dr. V. VENKATA RAO)


External Examiner




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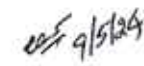
CERTIFICATE




This is to certify that the main project Entitled "MODELLING AND ANALYSIS OF INTELLIGENT REFLECTING SURFACE ASSISTANT WIRED SYSTEM" is the Bonafied work carried out by Ms. K.SWATHI (20471A04J2), Ms.CH. RAJESWARI (21475A0411), Ms. K.V MAHESWARI (21475A0409), Mr. M. KRISHNA (20471A04M0), Mr. A. CHANDRA SEKHAR (20471A04I1) in partial fulfilment of the requirements for the award of the degree Bachelor of Technology in Electronics and Communication Engineering from Jawaharlal Nehru Technological University Kakinada, Kakinada during the year 2023-24 under my supervision and guidance.


Project Guide

(Dr.K.SRINIVASARAO)


Head of the Department

(Dr. V. VENKATA RAO)


External Examiner




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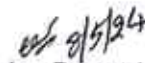
CERTIFICATE



This is to certify that the project entitled **IMPLEMENTATION OF MULTI-FUNCTIONAL NIGHT PATROLLING DEVICE** is the Bonafide work carried out by Ms. K. Kousalya (20471A04J3), Ms. B. Sushma Komali (21475A0424), Ms. M. Sandhya (21475A0402) Mr. G. Siva Kumar (20471A04I9), Mr. S. V. Narendra Kumar (20471A04L8) in partial fulfilment of the requirements for the award of the degree Bachelor of Technology in Electronics and Communication Engineering from Jawaharlal Nehru Technological University Kakinada, Kakinada during the year 2023-24 under my supervision and guidance.


Project Guide

(Mr. D. Suneel)


Head of the Department

(Dr. V. VENKATA RAO)




External Examiner


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DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING

CERTIFICATE



This is to certify that the project entitled Smart Home Automation is the Bonafide work carried out by Ms.B.Siva Latha(20471A04I4), Ms.C.Aparna(20471A04I6), Mr.D.Madhu (20471A04M4), Ms.G.Naga Lakshmi (20471A04J1), Mr.P.Navya Sai (20471A04L7) in partial fulfilment of the requirements for the award of the degree Bachelor of Technology in Electronics and Communication Engineering from Jawaharlal Nehru Technological University Kakinada, Kakinada during the year 2023-24 under my supervision and guidance.

Guide

(Mr.P.S.S.Chakravarthy)

05/5/24
Head of the Department

(Dr. V. Venkata Rao)

External Examiner



II

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DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING

CERTIFICATE



This is to certify that the project entitled **ONLINE SMART VOTING SYSTEM USING IMAGE PROCESSING AND CNN** is the Bonafide work carried out by **Mr.S.GOPINADH(20471A04K9)**, **Mr.A.CHARAN SIVA TEJA (21475A0403)**, **Mr.P.MADHUSUDHAN (21475A0404)**, **Mr.K.KOTESWARA RAO (20471A04L2)**, **Mr.SK.NAZEER (20471A04K7)** in partial fulfilment of the requirements for the award of the degree Bachelor of Technology in Electronics and Communication Engineering from Jawaharlal Nehru Technological University Kakinada, Kakinada during the year 2022-23 under my supervision and guidance.


Guide

(Dr.J.BRAHMAIAH NAIK)


Head of the Department
Dr.V.VENKATA RAO


External Examiner





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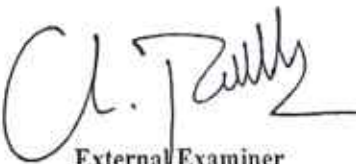
CERTIFICATE



This is to certify that the main project entitled IMPLEMENTATION OF SMART WASTE MANAGEMENT SYSTEM USING IOT is the bona fide work carried out by Ms.A.Prathyusha (20471A0413), Ms.Y.Prabhavathi (20471A04L0), Mr.P.Mohan krishna (20471A04K2), Mr.P.Srikanth (20471A04K4), Mr.P.Rajeeva Reddy(20471A04L3) in partial fulfilment of the requirements for the award of the degree Bachelor of Technology in Electronics and Communication Engineering from Jawaharlal Nehru Technological University Kakinada, Kakinada during the year 2023-2024 under my supervision and guidance.


Project Guide
(Dr. B. Siva Nageswara Rao)


Head of the Department
(Dr. V. VENKATA RAO)


External Examiner




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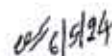
CERTIFICATE




This is to certify that the project entitled IOT BASED ADVANCED SECURITY SYSTEM IN MILITARY FOR IDENTIFICATION OF TRESPASSERS USING ULTRASONIC RADAR is the Bonafide work carried out by Mr. M. Ramakrishna (20471A04J9), Mr. K. Sreekanth Reddy (20471A04J8), Mr. B. Lokesh (21475A0425), Mr. E. Dinesh (20471A04I7) and Mr. J. Prem Kumar (21475A0421) in partial fulfilment of the requirements for the award of the degree Bachelor of Technology in Electronics and Communication Engineering from Jawaharlal Nehru Technological University Kakinada, Kakinada during the year 2023-24 under my supervision and guidance.


Project Guide

(Mr. G. Samuel Joe Victor)


Head of the Department
(Dr. V. Venkata Rao)


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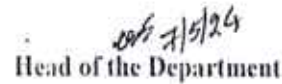
CERTIFICATE



This is to certify that the project entitled HOME SAFETY WITH CLOUD BASED SYSTEM is the bona fide work carried out by Ms. K. Sandhya (20471A04J5), Ms. G. Hemasri (21475A0413), Mr. G. Ganesh Bhavani Shankar (20471A04J0), Mr. K. Jagadeesh (20471A04J4), Mr. SK. Subhani (20471A04K8) in partial fulfilment of the requirements for the award of the degree Bachelor of Technology in Electronics and Communication Engineering from Jawaharlal Nehru Technological University Kakinada, Kakinada during the year 2023-24 under my supervision and guidance.


Guide

(Mrs. P. VINUTHNA)


Head of the Department

(Dr. V. VENKATA RAO)


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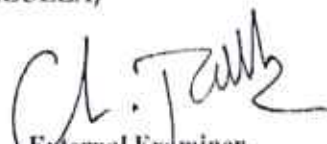
This is to certify that the major project entitled IDENTIFICATION OF EPILEPSY USING VMD AND SVM is the Bonafide work carried out by Ms. P. Lakshmi Sanjana (21475A0401), Ms. Sk. Sheema (21475A0417), Ms. D. Aparna (21475A0420), Mr. K. Sai Srujan (20471A04J7), and Mr. K. Tarun Kumar (21475A0418) in partial fulfilment of the requirements for the award of the degree Bachelor of Technology in Electronics and Communication Engineering from Jawaharlal Nehru Technological University Kakinada, Kakinada during the year 2023-24 under my supervision and guidance.


Project Guide

(Dr. SK. EBRAHEEM KHALEELULLA)

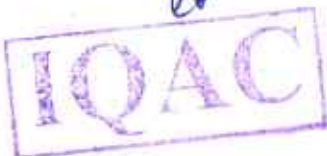

Head of the Department

(Dr. V. VENKATA RAO)


External Examiner


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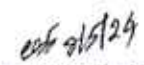
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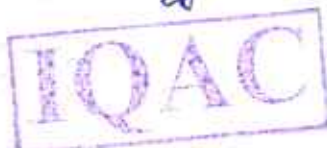
This is to certify that the main project entitled "DESIGN AND IMPLEMENTATION OF DIGITAL CIRCUITS USING FPGA" is the Bonafide work carried out by Ms.P.DIVYANAYANA(20471A04K3),Ms.D.BHUVANESWARI(21475A0419),Mr.CH.SAI NITHINKUMAR(20471A04I5),Mr.D.SAIRAGHAVA(20471A04L1),Mr.CH.LAKSHIMA REDDY(20471A04L5) in partial fulfilment of the requirements for the award of the degree Bachelor of Technology in Electronics and Communication Engineering from Jawaharlal Nehru Technological University Kakinada,Kakinada during the year 2023-24 under my supervision and guidance.


Project Guide

(Dr.K.SRINIVASARAO)


Head of the Department
(Dr. V. VENKATA RAO)


External Examiner




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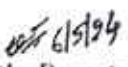
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DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING

CERTIFICATE



This is to certify that the project entitled Analyzing the Performance Comparison of XOR-XNOR Cells Utilized in Hybrid Logic-Based Full Adder Using 45 nm Technology is the Bonafide work carried out by Ms. P.Bhuvaneshwari (21475A0410), Mr. SK.Abdul Khayyum (21475A0407), Mr. R.Ajaykumar Raju (21475A0422), Mr. G.Sunil Varma (20471A04L6) and Mr. G.Sai Krishna (20471A04I8) in partial fulfillment of the requirements for the award of the degree Bachelor of Technology in Electronics and Communication Engineering from Jawaharlal Nehru Technological University Kakinada, Kakinada during the year 2023-24 under my supervision and guidance.


Project Guide
(Mr. A. Raveendra Babu)


Head of the Department
(Dr. V. Venkata Rao)


External Examiner




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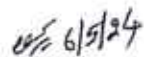
CERTIFICATE



This is to certify that the project work entitled DEVELOPMENT OF SRAM CELL UTILIZING 45nm COMPLEMENTARY MOS TECHNOLOGY is the bonafide work carried out by Ms. B. Bindu (20471A04M5), Ms. K. Swathi (20471A04J6), Mr. O. Ganesh(21475A0415), Mr. SK. Jani Basha(20471A04L4), Mr.D.Dwarakesh (21475A0408) in partial fulfilment of the requirements for the award of the degree Bachelor of Technology in Electronics and Communication Engineering from Jawaharlal Nehru Technological University Kakinada, Kakinada during the year 2022-23 under my supervision and guidance.


Project Guide

(Mr.A.Raveendra Babu)


Head of the Department

(Dr. V. VENKATA RAO)


External Examiner





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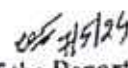
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This is to certify that the project entitled Lung Cancer Detection Using Convolutional Neural Network is the Bonafide work carried out by Ms. N. Renukadevi(20471A04K0), Mr. P. Bhargav(20471A04K1), Ms. A. Meghana (20471A04I2), Mr. Sk. Shareef (20471A04L9), Mr. R. Sambasivarao(20471A04M1) in partial fulfilment of the requirements for the award of the degree Bachelor of Technology in Electronics and Communication Engineering from Jawaharlal Nehru Technological University Kakinada, Kakinada during the year 2022-23 under my supervision and guidance.


Guide
(Dr. K. RAJU)


Head of the Department
(Dr. V. Venkata Rao)




External Examiner



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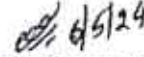
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This is to certify that the project entitled **EMOTION DETECTION OF FACIAL IMAGE USING MACHINE LEARNING** is the Bonafide work carried out by Ms. D. Lakshmi Prasanna (21475A0416) , Mr. T. Krishna Sai (21475A0406), Mr. B. Naveen Kumar (21475A0405), Mr. P. Ajay Kumar (21475A0412) and Mr. G. Siva Prasad (21475A0423) in partial fulfilment of the requirements for the award of the degree Bachelor of Technology in Electronics and Communication Engineering from Jawaharlal Nehru Technological University Kakinada, Kakinada during the year 2023-24 under my supervision and guidance.


Project Guide
(Dr. K. Raju)


Head of the Department
(Dr. V. Venkata Rao)


External Examiner




PRINCIPAL
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(Dist.), Andhra Pradesh.

DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING

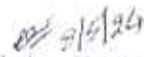
CERTIFICATE



This is to certify that the Project entitled WIRELESS COMMUNICATION
WITH IOT-BASED CLOUD-ENABLED SERVICES FOR SMART
AGRICULTURE MONITORING SYSTEM is the Bonafied work carried
out by Ms.M.YAMUNA(20471A0434), Mr. K. MANI TEJA (20471A0431),
Mr.K.V.SASIKANTHREDDY(20471A0430), Mr. A. RAGHAVENDRA
(20471A0402), Ms. K.BUELA RANI(20471A0427).


Guide

(Dr. K. Srinivasa Rao)


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AUTOCAD (EEE)

An internship report submitted in partial fulfillment of the requirement for the award
of degree of

BACHELOR OF TECHNOLOGY

IN

ELECTRICAL AND ELECTRONICS ENGINEERING

Submitted By

R. VAMSI

21475A0238

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Associate Professor



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AUTOCAD (EEE)

An internship report submitted in partial fulfillment of the requirement for the award of
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BACHELOR OF TECHNOLOGY IN ELECTRICAL AND ELECTRONICS ENGINEERING

Submitted By

P.NARASIMHA NAIK

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Assistant Professor



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DEPARTMENT OF ELECTRICAL & ELECTRONICS ENGINEERING



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This is to certify that the long term internship entitled "AutoCAD(EEE)" is a bonafide work carried out by **P.NARASIMHA NAIK (21475A0239)** under our supervision and guidance in partial fulfillment of requirements for the award of Degree of BACHELOR OF TECHNOLOGY in ELECTRICAL & ELECTRONICS ENGINEERING, from JNTUK, Kakinada, Andhra Pradesh, during the year 2023-2024.

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SOLAR PV PLANT DESIGN

An internship report submitted in partial fulfillment of the requirement for the award
of degree of

BACHELOR OF TECHNOLOGY

IN

ELECTRICAL AND ELECTRONICS ENGINEERING

Submitted By

K.HANUMANTHU

21475A0241

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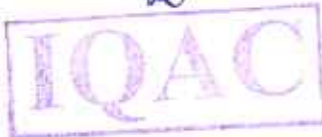
This is to certify that the long term internship entitled "SOLAR PV PLANT DESIGN" is a bonafide work carried out by **K.HANUMANTHU (21475A0241)** under our supervision and guidance in partial fulfillment of requirements for the award of Degree of BACHELOR OF TECHNOLOGY in ELECTRICAL & ELECTRONICS ENGINEERING, from JNTUK, Kakinada, Andhra Pradesh, during the year 2023-2024.


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AUTOCAD(EEE)

An internship report submitted in partial fulfillment of the requirement for the award

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BACHELOR OF TECHNOLOGY

IN

ELECTRICAL AND ELECTRONICS ENGINEERING

Submitted By

T. UDAY KIRAN

21475A0242

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Associate Professor



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This is to certify that the long term internship entitled "AutoCAD(EEE)" is a bonafide work carried out by **T. UDAY KIRAN (21475A0242)** under our supervision and guidance in partial fulfilment of requirements for the award of Degree of BACHELOR OF TECHNOLOGY in ELECTRICAL & ELECTRONICS ENGINEERING, from JNTUK, Kakinada, Andhra Pradesh, during the year 2023-2024.

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An internship report submitted in partial fulfillment of the requirement for the award
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IN

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Submitted By

P. GUPTESWARARAO

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IQAC

SOLAR PV PLANT DESIGN

An internship report submitted in partial fulfilment of the requirement for the award of

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BACHELOR OF TECHNOLOGY

IN

ELECTRICAL AND ELECTRONICS ENGINEERING

Submitted By

P. VENKATESH

21475A0244

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Associate Professor



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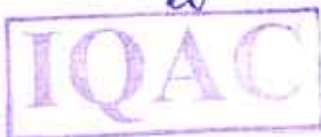
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This is to certify that the internship entitled "SOLAR PV PLANT DESIGN" is a Bonafide work carried out by **P. VENKATESH (21475A0244)** under our supervision and guidance in partial fulfilment of requirements for the award of Degree of BACHELOR OF TECHNOLOGY in ELECTRICAL AND ELECTRONICS ENGINEERING, from JNTUK, Kakinada, Andhra Pradesh, during the year 2023-2024.


FACULTY GUIDE

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AUTOCAD(EEE)

An internship report submitted in partial fulfillment of the requirement for the award
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BACHELOR OF TECHNOLOGY

IN

ELECTRICAL AND ELECTRONICS ENGINEERING

Submitted By

P. VIKRAM JOHN VESLY

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DEPARTMENT OF ELECTRICAL & ELECTRONICS ENGINEERING



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This is to certify that the long term internship entitled “AutoCAD(EEE)” is a bonafide work carried out by **P. VIKRAM JOHN VESLY (21475A0245)** under our supervision and guidance in partial fulfillment of requirements for the award of Degree of BACHELOR OF TECHNOLOGY in ELECTRICAL & ELECTRONICS ENGINEERING, from JNTUK, Kakinada, Andhra Pradesh, during the year 2023-2024.

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AUTOCAD(EEE)

An internship report submitted in partial fulfillment of the requirement for the award

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SK. UMAR

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Associate Professor



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This is to certify that the long term internship entitled “AutoCAD(EEE)” is a bonafide work carried out by **SK. UMAR (21475A0246)** under our supervision and guidance in partial fulfillment of requirements for the award of Degree of BACHELOR OF TECHNOLOGY in ELECTRICAL & ELECTRONICS ENGINEERING, from JNTUK, Kakinada, Andhra Pradesh, during the year 2023-2024.

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ELECTRIC VEHICLE

An internship report submitted in partial fulfillment of the requirement for the award

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IN

ELECTRICAL AND ELECTRONICS ENGINEERING

Submitted By

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AutoCAD (EEE)

An internship report submitted in partial fulfillment of the requirement for the
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IN

ELECTRICAL AND ELECTRONICS ENGINEERING

Submitted by

B.BALAGURAVIAH

21475A0248

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Associate Professor



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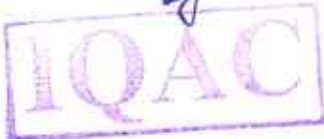

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An internship report submitted in partial fulfillment of the requirement for the award
of degree of

BACHELOR OF TECHNOLOGY

IN

ELECTRICAL AND ELECTRONICS ENGINEERING

Submitted By

G. KARTHIC VENKATA SIVA SAI

21475A0249

Under the Esteemed Guidance of

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Associate Professor



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This is to certify that the long term internship entitled "AUTOCAD (EEE)" is a bonafide work carried out by **G. KARTHIC VENKATA SIVA SAI (21475A0249)** under our supervision and guidance in partial fulfillment of requirements for the award of Degree of BACHELOR OF TECHNOLOGY in ELECTRICAL & ELECTRONICS ENGINEERING, from JNTUK, Kakinada, Andhra Pradesh, during the year 2023-2024.

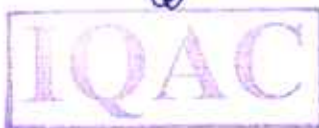
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An internship report submitted in partial fulfillment of the requirement for the award
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This is to certify that the long term internship entitled "AutoCAD(EEE)" is a bonafide work carried out by **N.RAMESH (21475A0250)** under our supervision and guidance in partial fulfillment of requirements for the award of Degree of BACHELOR OF TECHNOLOGY in ELECTRICAL & ELECTRONICS ENGINEERING, from JNTUK, Kakinada, Andhra Pradesh, during the year 2023-2024.

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**AGRICULTURE PROTECTION FROM
ANIMALS USING WSN**

A main project report submitted in partial fulfillment of the requirement for the award of
degree of

BACHELOR OF TECHNOLOGY

IN

ELECTRICAL AND ELECTRONICS ENGINEERING

Submitted By

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This is to certify that the Main Project entitled "AGRICULTURE PROTECTION FROM ANIMALS USING WSN" is a bonafide work carried out by **S. BHAAVANI (21475A0204), K. RAJKUMAR (21475A0201), J. SATISH (21475A0229), P. VIKRAM JOHN VESLY (21475A0245)**, under our supervision and guidance in partial fulfillment of requirements for the award of Degree of BACHELOR OF TECHNOLOGY in ELECTRICAL & ELECTRONICS ENGINEERING, from JNTUK, Kakinada, Andhra Pradesh, during the year 2023-2024.

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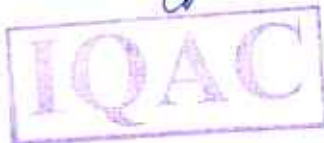
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IOT BASED INDUSTRIAL FAULT MONITOR AND CONTROLLING SYSTEM

A main project report submitted in partial fulfillment of the requirement for the Award
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BACHELOR OF TECHNOLOGY

IN

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This is to certify that the main project entitled "IOT BASED INDUSTRIAL FAULT MONITORING AND CONTROLLING SYSTEM" is a bonafide work done by N. TEJESWARARAO (21475A0224), K. HANUMANTHU (21475A0241), K. LAKSHMI PADMAVATHI (21475A0223), D. BHUSHANAM (21475A0202) under our supervision and guidance in partial fulfillment of requirements for the award of Degree of **BACHELOR OF TECHNOLOGY IN ELECTRICAL AND ELECTRONICS ENGINEERING** from JNTUK, Andhra Pradesh, during the year 2023 - 2024.


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IOT BASED SMART AGRICULTURE
A Main project report submitted in partial fulfilment of the requirement for the
award of degree of
BACHELOR OF TECHNOLOGY
IN
ELECTRICAL AND ELECTRONICS ENGINEERING

Submitted By

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This is to certify that the Main Project entitled as "IOT BASED SMART AGRICULTURE" is a Bonafide work carried out by **M. KESAVA KRISHNA (21475A0221), J. PREMA RAJU (21475A0203), T. UDAY KIRAN (21475A0242), SK. UMAR (21475A0246)**, under our supervision and guidance in partial fulfilment of requirements for the award of Degree of BACHELOR OF TECHNOLOGY in ELECTRICAL & ELECTRONICS ENGINEERING, from JNTUK, Kakinada, Andhra Pradesh, during the year 2023-2024.


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**AGRICULTURE PROTECTION FROM
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**INTEGRATED SMART E-VEHICLE CHARGING
SYSTEM WITH MULTI INPUT POWER SOURCES
AND ENCHANCED POWER FLOW CONTROL**

A Main project report submitted in partial fulfillment of the requirement for the

Award of degree of

BACHELOR OF TECHNOLOGY

IN

ELECTRICAL AND ELECTRONICS ENGINEERING

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This is to certify that the Main Project entitled "INTEGRATED SMART E-VEHICLE CHARGING SYSTEM WITH MULTI INPUT SOURCES AND ENHANCED POWER FLOW CONTROL" is a bonafide work done by "V. BHUVANESWARI (21475A0205), J. BALA ANKARAO (21475A0214), P. JOSHUVA RATNA KUMAR (21475A0207), SK. ESUF (21475A0216)" under our supervision and guidance in partial fulfillment of requirements for the award of Degree of **BACHELOR OF TECHNOLOGY** in **ELECTRICAL AND ELECTRONICS ENGINEERING** from JNTUK, Andhra Pradesh, during the year 2023- 2024.


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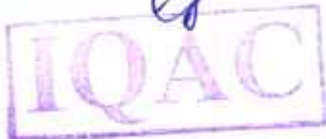

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**HYBRID SYSTEM WITH ENHANCED POWER
SMOOTHING FUNCTIONALITY USING NEURAL
NETWORK CONTROLLER**

A main project report submitted in partial fulfillment of the requirement for the award
of degree of

BACHELOR OF TECHNOLOGY

IN

ELECTRICAL AND ELECTRONICS ENGINEERING

Submitted by

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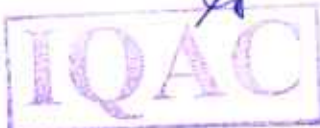
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This is to certify that the main project entitled **HYBRID SYSTEM WITH ENHANCED POWER SMOOTHING FUNCTIONALITY USING NEURAL NETWORK CONTROLLER** is a bonafide work done by **B.SATYA NARAYANA (21475A0206)**, **S.NAVEEN (21475A0237)**, **K.DURGA SANKAR (21475A0226)**, **P.NARASIMHA NAIK (21475A0239)**, under our supervision and guidance in partial fulfillment of requirements for the award of Degree of **BACHELOR OF TECHNOLOGY** in **ELECTRICAL AND ELECTRONICS ENGINEERING** from JNTUK, Andhra Pradesh, during the year 2023 - 2024.

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**INTEGRATED SMART E-VEHICLE CHARGING
SYSTEM WITH MULTI INPUT POWER SOURCES
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A Main project report submitted in partial fulfillment of the requirement for the

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IN

ELECTRICAL AND ELECTRONICS ENGINEERING

Submitted By

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J. BALA ANKARAO	21475A0214
V. BHUVANESWARI	21475A0205
SK. ESUF	21475A0216

Under the Esteemed Guidance of

P.D.V.S. K KISORE M.Tech,(Ph.D.)

Associate Professor



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NARASARAOPETA ENGINEERING COLLEGE(AUTONOMOUS)**

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**DEPARTMENT OF ELECTRICAL & ELECTRONICS
ENGINEERING**



CERTIFICATE

This is to certify that the Main Project entitled "INTEGRATED SMART E-VEHICLE CHARGING SYSTEM WITH MULTI INPUT SOURCES AND ENHANCED POWER FLOW CONTROL" is a bonafide work done by " P. JOSHUA RATNA KUMAR (21475A0207), J. BALA ANKARAO (21475A0214), V. BHUVANESWARI (21475A0205), SK. ESUF (21475A0216)" under our supervision and guidance in partial fulfillment of requirements for the award of Degree of **BACHELOR OF TECHNOLOGY** in **ELECTRICAL AND ELECTRONICS ENGINEERING** from JNTUK, Andhra Pradesh, during the year 2023- 2024.


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WIRELESS CHARGING FOR EV USING SOLAR

A main project report submitted in partial fulfillment of the requirement for the Award of
degree of

BACHELOR OF TECHNOLOGY

IN

ELECTRICAL AND ELECTRONICS ENGINEERING

Submitted by

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B. BALAGURAVIAH	21475A0248
T. RAVINDRA	21475A0222
P. GUPTESWARARAO	21475A0243

Under the Esteemed Guidance of

Mrs. S. SARITHA M.Tech

Assistant Professor



DEPARTMENT OF ELECTRICAL & ELECTRONICS ENGINEERING

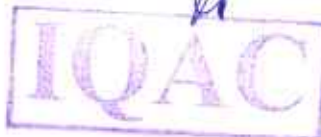
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DEPARTMENT OF ELECTRICAL & ELECTRONICS ENGINEERING



CERTIFICATE

This is to certify that the main project entitled **WIRELESS CHARGING FOR EV USING SOLAR** is a bonafide work done by **K.JITHENDRA (21475A0208)**, **B.BALAGURAVIAH (21475A0248)**, **T.RAVINDRA (21475A0222)**, **P.GUPTESWARARAO (21475A0243)**, under our supervision and guidance in partial fulfillment of requirements for the award of Degree of **BACHELOR OF TECHNOLOGY** in **ELECTRICAL AND ELECTRONICS ENGINEERING** from JNTUK, Andhra Pradesh, during the year 2023 - 2024.

S. Saritha

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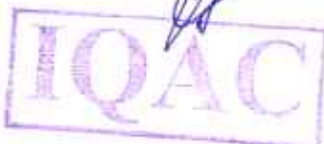
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**OPTIMAL PWM TECHNIQUE BASED CASCADED
H-BRIDGE 31-LEVEL INVERTER**

A Main project report submitted in partial fulfillment of the requirement for the Award of degree

of

**BACHELOR OF TECHNOLOGY
IN**

ELECTRICAL AND ELECTRONICS ENGINEERING

Submitted By

P. ROSAIAH	21475A0209
CH. JOSEPH	21475A0219
A. GANGADHARA RAO	21475A0233
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Dr. SK. MD. SHAREEF M.Tech, Ph.D

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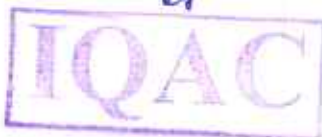
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DEPARTMENT OF ELECTRICAL & ELECTRONICS ENGINEERING



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This is to certify that the Main Project entitled "OPTIMAL PWM TECHNIQUE BASED ASCADED H-BRIDGE 31-LEVEL INVERTER" is a bonafide work done by P.ROSAIAH (21475A0209) , CH.JOSEPH (21475A0219), A.GANGADHARA RAO (21475A0233) , N.RAMESH (21475A0250), under our supervision and guidance in partial fulfillment of requirements for the award of Degree of BACHELOR OF TECHNOLOGY in ELECTRICAL AND ELECTRONICS ENGINEERING from JNTUK, Andhra Pradesh, during the year 2023 - 2024.

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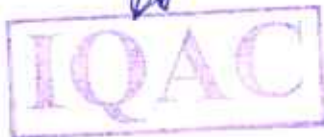
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21475A0210

**BATTERY DEGRADATION IN ELECTRIC AND HYBRID
ELECTRIC VEHICLES**

A main project report submitted in partial fulfillment of the requirement for the Award
of degree of

BACHELOR OF TECHNOLOGY

IN

ELECTRICAL AND ELECTRONICS ENGINEERING

Submitted by

T. VINAY	21475A0210
G. PRUDHVI RAJ	21475A0227
SK. RAFI	21475A0212
P. AJAY KUMAR	21475A0215

Under the Esteemed Guidance of

Mrs. P. BRAMARAMBA VATHI M. Tech

Assistant Professor



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CERTIFICATE

This is to certify that the main project entitled "BATTER DEGRADATION IN ELECTRIC AND HYBRID ELECTRIC VEHICLES" is a bonafide work done by **T. VINAY (21475A0210), G. PRUDHVI RAJ (21475A0227), SK. RAFI (21475A0212), P. AJAY KUMAR (21475A0215)** under our supervision and guidance in partial fulfillment of requirements for the award of degree of **BACHELOR OF TECHNOLOGY** in **ELECTRICAL AND ELECTRONICS ENGINEERING** from JNTUK, Andhra Pradesh, during the year 2023 - 2024.


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**ENABLING SMART GRIDS: IoT AND GSM-
BASED CONTROL AND MONITORING SYSTEM**

A project report submitted in partial fulfillment of the requirement for the award

of degree of

BACHELOR OF TECHNOLOGY

IN

ELECTRICAL AND ELECTRONICS ENGINEERING

Submitted By

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DEPARTMENT OF ELECTRICAL & ELECTRONICS ENGINEERING



CERTIFICATE

This is to certify that the Project entitled "ENABLING SMART GRIDS: IoT AND GSM-BASED CONTROL AND MONITORING SYSTEM" is a bonafide work carried out by **SK. ABDUL RABBANI (21475A0211), V. PRANAY NAGA SAI (21475A0230), B. VENKATA VENU (21475A0231), R. VAMSI (21475A0238)**, under our supervision and guidance in partial fulfillment of requirements for the award of Degree of BACHELOR OF TECHNOLOGY in ELECTRICAL & ELECTRONICS ENGINEERING, from JNTUK, Kakinada, Andhra Pradesh, during the year 2023-2024.

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**BATTERY DEGRADATION IN ELECTRIC AND HYBRID
ELECTRIC VEHICLES**

A main project report submitted in partial fulfillment of the requirement for the Award
of degree of

BACHELOR OF TECHNOLOGY

IN

ELECTRICAL AND ELECTRONICS ENGINEERING

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EXTERNAL EXAMINER

DESIGN OF PIEZOELECTRIC HARVESTER USING FOOTWEAR

A project report submitted in partial fulfillment of the requirement for the award of
degree of

BACHELOR OF TECHNOLOGY

IN

ELECTRICAL AND ELECTRONICS ENGINEERING

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P. NARENDRA REDDY	21475A0213
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M. VEERESH	21475A0234
K. AKASH	21475A0247

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CERTIFICATE

This is to certify that the Project entitled "**DESIGN OF PIEZOELECTRIC HARVESTER USING FOOTWEAR**" is a bonafide work carried out by **P. NARENDRA REDDY (21475A0213), K.CHANDRA SEKHAR (21475A0228), M. VEERESH (21475A0234), K. AKASH (21475A0247)**, under our supervision and guidance in partial fulfillment of requirements for the award of Degree of BACHELOR OF TECHNOLOGY in ELECTRICAL & ELECTRONICS ENGINEERING, from JNTUK, Kakinada, Andhra Pradesh, during the year 2023-2024.

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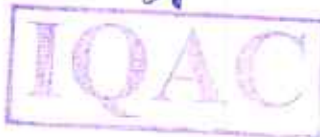
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21475A0220

**DESIGN AND DEVELOPMENT OF A SMART STICK
USING GPS AND GSM MODULES FOR BLIND PEOPLE**
A Main project report submitted in partial fulfilment of the requirement for the
award of degree of

**BACHELOR OF TECHNOLOGY
IN
ELECTRICAL AND ELECTRONICS ENGINEERING**

Submitted By

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R. SHYAM SUNDAR	21475A0232
T. LAKSHMI RAHUL	21475A0218
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DEPARTMENT OF ELECTRICAL & ELECTRONICS ENGINEERING



This is to certify that the Main Project entitled as "DESIGN AND DEVELOPMENT OF A SMART STICK USING GPS AND GMS MODULES FOR BLIND PEOPLE" is a Bonafide work carried out by **D. BALA TRIPURA SUNDARI (21475A0220), R.SHYAM SUNDAR (21475A0232), T.LAKSHMI RAHUL (21475A0218), P.TEJA BABU (21475A0225)** under our supervision and guidance in partial fulfilment of requirements for the award of Degree of BACHELOR OF TECHNOLOGY in ELECTRICAL & ELECTRONICS ENGINEERING, from JNTUK, Kakinada, Andhra Pradesh, during the year 2023-2024.


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21475A0221

IOT BASED SMART AGRICULTURE

A Main project report submitted in partial fulfilment of the requirement for the
award of degree of

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IN

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Submitted By

M. KESAVA KRISHNA	21475A0221
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This is to certify that the Main Project entitled as "IOT BASED SMART AGRICULTURE" is a Bonafide work carried out by **M. KESAVA KRISHNA (21475A0221), J. PREMA RAJU (21475A0203), T. UDAY KIRAN (21475A0242), SK. UMAR (21475A0246)**, under our supervision and guidance in partial fulfilment of requirements for the award of Degree of BACHELOR OF TECHNOLOGY in ELECTRICAL & ELECTRONICS ENGINEERING, from JNTUK, Kakinada, Andhra Pradesh, during the year 2023-2024.

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WIRELESS CHARGING FOR EV USING SOLAR

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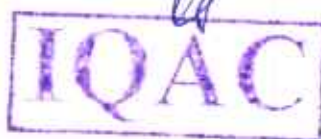
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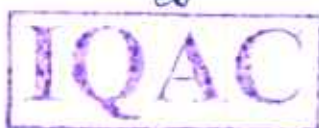
This is to certify that the main project entitled **WIRELESS CHARGING FOR EV USING SOLAR** is a bonafide work done by **T.RAVINDRA (21475A0222)**, **K.JITHENDRA (21475A0208)**, **B.BALAGURAVIAH (21475A0248)**, **P.GUPTESWARARAO (21475A0243)**, under our supervision and guidance in partial fulfillment of requirements for the award of Degree of **BACHELOR OF TECHNOLOGY** in **ELECTRICAL AND ELECTRONICS ENGINEERING** from JNTUK, Andhra Pradesh, during the year 2023 - 2024.

S. Saritha
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**IOT BASED INDUSTRIAL FAULT MONITOR AND
CONTROLLING SYSTEM**

A main project report submitted in partial fulfillment of the requirement for the Award
of degree of

BACHELOR OF TECHNOLOGY

IN

ELECTRICAL AND ELECTRONICS ENGINEERING

Submitted by

K. LAKSHMI PADMAVATHI	21475A0223
N. TEJESWARARAO	21475A0224
K. HANUMANTHU	21475A0241
D. BHUSHANAM	21475A0202

Under the Esteemed Guidance of

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CERTIFICATE

This is to certify that the main project entitled "IOT BASED INDUSTRIAL FAULT MONITORING AND CONTROLLING SYSTEM" is a bonafide work done by N. TEJESWARARAO (21475A0224), K. HANUMANTHU (21475A0241), K. LAKSHMI PADMAVATHI (21475A0223), D. BHUSHANAM (21475A0202) under our supervision and guidance in partial fulfillment of requirements for the award of Degree of **BACHELOR OF TECHNOLOGY IN ELECTRICAL AND ELECTRONICS ENGINEERING** from JNTUK, Andhra Pradesh, during the year 2023 - 2024.


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IOT BASED INDUSTRIAL FAULT MONITOR AND CONTROLLING SYSTEM

A main project report submitted in partial fulfillment of the requirement for the award
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IN

ELECTRICAL AND ELECTRONICS ENGINEERING

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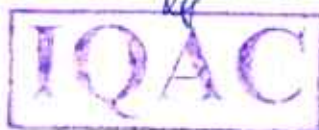
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**DESIGN AND DEVELOPMENT OF A SMART STICK
USING GPS AND GSM MODULES FOR BLIND PEOPLE**
A Main project report submitted in partial fulfilment of the requirement for the
award of degree of

**BACHELOR OF TECHNOLOGY
IN
ELECTRICAL AND ELECTRONICS ENGINEERING**

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DEPARTMENT OF ELECTRICAL & ELECTRONICS ENGINEERING



This is to certify that the Main Project entitled as "DESIGN AND DEVELOPMENT OF A SMART STICK USING GPS AND GMS MODULES FOR BLIND PEOPLE" is a Bonafide work carried out by **D. BALA TRIPURA SUNDARI (21475A0220), R.SHYAM SUNDAR (21475A0232), T.LAKSHMI RAHUL (21475A0218), P.TEJA BABU (21475A0225)** under our supervision and guidance in partial fulfilment of requirements for the award of Degree of BACHELOR OF TECHNOLOGY in ELECTRICAL & ELECTRONICS ENGINEERING, from JNTUK, Kakinada, Andhra Pradesh, during the year 2023-2024.

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21475A0226

**HYBRID SYSTEM WITH ENHANCED POWER
SMOOTHING FUNCTIONALITY USING NEURAL
NETWORK CONTROLLER**

A main project report submitted in partial fulfillment of the requirement for the award
of degree of

**BACHELOR OF TECHNOLOGY
IN
ELECTRICAL AND ELECTRONICS ENGINEERING**

Submitted by

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S.NAVEEN	21475A0237
B.SATYA NARAYANA	21475A0206
P.NARASIMHA NAIK	21475A0239

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This is to certify that the main project entitled **HYBRID SYSTEM WITH ENHANCED POWER SMOOTHING FUNCTIONALITY USING NEURAL NETWORK CONTROLLER** is a bonafide work done by **K.DURGA SANKAR (21475A0226)**, **S.NAVEEN (21475A0237)**, **B.SATYA NARAYANA (21475A0206)**, **P.NARASIMHA NAIK (21475A0239)**, under our supervision and guidance in partial fulfillment of requirements for the award of Degree of **BACHELOR OF TECHNOLOGY** in **ELECTRICAL AND ELECTRONICS ENGINEERING** from JNTUK, Andhra Pradesh, during the year 2023 - 2024.

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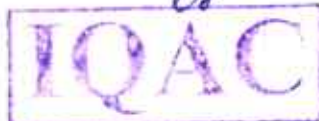
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21475A0227

**BATTERY DEGRADATION IN ELECTRIC AND HYBRID
ELECTRIC VEHICLES**

A main project report submitted in partial fulfillment of the requirement for the Award
of degree of

BACHELOR OF TECHNOLOGY

IN

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Submitted by

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SK. RAFI	21475A0212
P. AJAY KUMAR	21475A0215
T. VINAY	21475A0210

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CERTIFICATE

This is to certify that the main project entitled "BATTER DEGRADATION IN ELECTRIC AND HYBRID ELECTRIC VEHICLES" is a bonafide work done by **G. PRUDHVI RAJ (21475A0227), SK. RAFI (21475A0212), P. AJAY KUMAR (21475A0215), T. VINAY (21475A0210)**, under our supervision and guidance in partial fulfillment of requirements for the award of degree of **BACHELOR OF TECHNOLOGY** in **ELECTRICAL AND ELECTRONICS ENGINEERING** from JNTUK, Andhra Pradesh, during the year 2023 - 2024.


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DESIGN OF PIEZOELECTRIC HARVESTER USING FOOTWEAR

A project report submitted in partial fulfillment of the requirement for the award of
degree of
BACHELOR OF TECHNOLOGY
IN
ELECTRICAL AND ELECTRONICS ENGINEERING

Submitted By

K. CHANDRA SEKHAR	21475A0228
P. NARENDRA REDDY	21475A0213
M. VEERESH	21475A0234
K. AKASH	21475A0247

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DEPARTMENT OF ELECTRICAL & ELECTRONICS ENGINEERING



CERTIFICATE

This is to certify that the Project entitled "**DESIGN OF PIEZOELECTRIC HARVESTER USING FOOTWEAR**" is a bonafide work carried out by **P. NARENDRA REDDY (21475A0213), K.CHANDRA SEKHAR (21475A0228), M. VEERESH (21475A0234), K. AKASH (21475A0247)**, under our supervision and guidance in partial fulfillment of requirements for the award of Degree of BACHELOR OF TECHNOLOGY in ELECTRICAL & ELECTRONICS ENGINEERING, from JNTUK, Kakinada, Andhra Pradesh, during the year 2023-2024.

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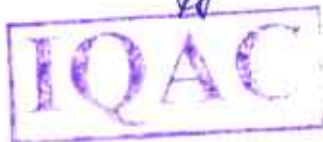
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**ENABLING SMART GRIDS: IoT AND GSM-
BASED CONTROL AND MONITORING SYSTEM**

A project report submitted in partial fulfillment of the requirement for the award
of degree of

BACHELOR OF TECHNOLOGY

IN

ELECTRICAL AND ELECTRONICS ENGINEERING

Submitted By

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This is to certify that the Project entitled "ENABLING SMART GRIDS: IoT AND GSM-BASED CONTROL AND MONITORING SYSTEM" is a bonafide work carried out by **V. PRANAY NAGA SAI (21475A0230), B. VENKATA VENU (21475A0231), R. VAMSI (21475A0238), SK. ABDUL RABBANI (21475A0211)**, under our supervision and guidance in partial fulfillment of requirements for the award of Degree of BACHELOR OF TECHNOLOGY in ELECTRICAL & ELECTRONICS ENGINEERING, from JNTUK, Kakinada, Andhra Pradesh, during the year 2023-2024.

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**ENABLING SMART GRIDS: IoT AND GSM-
BASED CONTROL AND MONITORING SYSTEM**

A project report submitted in partial fulfillment of the requirement for the award
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IN

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**DESIGN AND DEVELOPMENT OF A SMART STICK
USING GPS AND GSM MODULES FOR BLIND PEOPLE**
A Main project report submitted in partial fulfilment of the requirement for the
award of degree of

**BACHELOR OF TECHNOLOGY
IN
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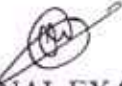
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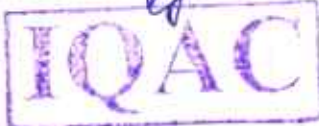

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21475A0233

**OPTIMAL PWM TECHNIQUE BASED CASCADED
H-BRIDGE 31-LEVEL INVERTER**

A Main project report submitted in partial fulfilment of the requirement for the
award of degree of

BACHELOR OF TECHNOLOGY

IN

ELECTRICAL AND ELECTRONICS ENGINEERING

Submitted By

A. GANGADHARA RAO	21475A0233
P. ROSAIAH	21475A0209
CH. JOSEPH	21475A0219
N. RAMESH	21475A0250

Under the Esteemed Guidance of

Dr. SK. MD. SHAREEF M.Tech,Ph.D

Associate Professor



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DEPARTMENT OF ELECTRICAL & ELECTRONICS ENGINEERING



CERTIFICATE

This is to certify that the Main Project entitled as “OPTIMAL PWM TECHNIQUE BASED CASCADED H-BRIDGE 31-LEVEL INVERTER” is a Bonafide work carried out by P. ROSAIAH (21475A0209), CH. JOSEPH (21475A0219), A. GANGADHARA RAO (21475A0233), N. RAMESH (21475A0250), under our supervision and guidance in partial fulfilment of requirements for the award of Degree of BACHELOR OF TECHNOLOGY in ELECTRICAL & ELECTRONICS ENGINEERING, from JNTUK, Kakinada, Andhra Pradesh, during the year 2023-2024.

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**DESIGN OF PIEZOELECTRIC HARVESTER USING
FOOTWEAR**

A project report submitted in partial fulfillment of the requirement for the award of
degree of

BACHELOR OF TECHNOLOGY

IN

ELECTRICAL AND ELECTRONICS ENGINEERING

Submitted By

M. VEERESH	21475A0234
P. NARENDRA REDDY	21475A0213
K. CHANDRA SEKHAR	21475A0228
K. AKASH	21475A0247

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This is to certify that the Project entitled "**DESIGN OF PIEZOELECTRIC HARVESTER USING FOOTWEAR**" is a bonafide work carried out by **P. NARENDRA REDDY (21475A0213), K.CHANDRA SEKHAR (21475A0228), M. VEERESH (21475A0234), K. AKASH (21475A0247)**, under our supervision and guidance in partial fulfillment of requirements for the award of Degree of BACHELOR OF TECHNOLOGY in ELECTRICAL & ELECTRONICS ENGINEERING, from JNTUK, Kakinada, Andhra Pradesh, during the year 2023-2024.


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SPEED CONTROL OF DC MOTOR USING IOT

A main project report submitted in partial fulfillment of the requirement for
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IN

ELECTRICAL AND ELECTRONICS ENGINEERING

Submitted By

K.MOHANA KRISHNA	21475A0235
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This is to certify that the Main Project entitled **SPEED CONTROL OF DC MOTOR USING IOT** is a Bonafide work carried out by **K. MOHANA KRISHNA (21475A0235), G. KARTHIK VENKATA SIVA SAI(21475A0249), G. JESWANTH (21475A0217), P. VENKATESH (21475A0244)** under our supervision and guidance in partial fulfillment of requirements for the award of Degree of BACHELOR OF TECHNOLOGY in ELECTRICAL & ELECTRONICS ENGINEERING, from JNTUK, Kakinada, Andhra Pradesh, during the year 2023-2024.

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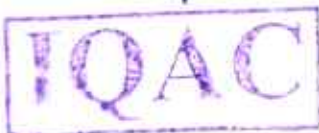
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21475A0237

**HYBRID SYSTEM WITH ENHANCED POWER
SMOOTHING FUNCTIONALITY USING NEURAL
NETWORK CONTROLLER**

A main project report submitted in partial fulfillment of the requirement for the award
of degree of

BACHELOR OF TECHNOLOGY

IN

ELECTRICAL AND ELECTRONICS ENGINEERING

Submitted by

S.NAVEEN	21475A0237
K.DURGA SANKAR	21475A0226
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This is to certify that the main project entitled **HYBRID SYSTEM WITH ENHANCED POWER SMOOTHING FUNCTIONALITY USING NEURAL NETWORK CONTROLLER** is a bonafide work done by **S.NAVEEN (21475A0237), K.DURGA SANKAR (21475A0226), B.SATYA NARAYANA (21475A0206), P.NARASIMHA NAIK (21475A0239)**, under our supervision and guidance in partial fulfillment of requirements for the award of Degree of **BACHELOR OF TECHNOLOGY in ELECTRICAL AND ELECTRONICS ENGINEERING** from JNTUK, Andhra Pradesh, during the year 2023 - 2024.


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2147SA0238

**ENABLING SMART GRIDS: IoT AND GSM-
BASED CONTROL AND MONITORING SYSTEM**

A project report submitted in partial fulfillment of the requirement for the award
of degree of

BACHELOR OF TECHNOLOGY

IN

ELECTRICAL AND ELECTRONICS ENGINEERING

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This is to certify that the Project entitled "ENABLING SMART GRIDS: IoT AND GSM-BASED CONTROL AND MONITORING SYSTEM" is a bonafide work carried out by **R. VAMSI (21475A0238)**, **V. PRANAY NAGA SAI (21475A0230)**, **B. VENKATA VENU (21475A0231)**, **SK. ABDUL RABBANI (21475A0211)**, under our supervision and guidance in partial fulfillment of requirements for the award of Degree of BACHELOR OF TECHNOLOGY in ELECTRICAL & ELECTRONICS ENGINEERING, from JNTUK, Kakinada, Andhra Pradesh, during the year 2023-2024.

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**HYBRID SYSTEM WITH ENHANCED POWER
SMOOTHING FUNCTIONALITY USING NEURAL
NETWORK CONTROLLER**

A main project report submitted in partial fulfillment of the requirement for the award
of degree of

BACHELOR OF TECHNOLOGY

IN

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This is to certify that the main project entitled **HYBRID SYSTEM WITH ENHANCED POWER SMOOTHING FUNCTIONALITY USING NEURAL NETWORK CONTROLLER** is a bonafide work done by **P.NARASIMHA NAIK (21475A0239), S.NAVEEN (21475A0237), K.DURGA SANKAR (21475A0226), B.SATYA NARAYANA (21475A0206)**, under our supervision and guidance in partial fulfillment of requirements for the award of Degree of **BACHELOR OF TECHNOLOGY** in **ELECTRICAL AND ELECTRONICS ENGINEERING** from JNTUK, Andhra Pradesh, during the year 2023 - 2024.

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IOT BASED INDUSTRIAL FAULT MONITOR AND CONTROLLING SYSTEM

A main project report submitted in partial fulfillment of the requirement for the Award
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IN

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This is to certify that the main project entitled "IOT BASED INDUSTRIAL FAULT MONITORING AND CONTROLLING SYSTEM" is a bonafide work done by N. TEJESWARARAO (21475A0224), K. HANUMANTHU (21475A0241), K. LAKSHMI PADMAVATHI (21475A0223), D. BHUSHANAM (21475A0202) under our supervision and guidance in partial fulfillment of requirements for the award of Degree of BACHELOR OF TECHNOLOGY IN ELECTRICAL AND ELECTRONICS ENGINEERING from JNTUK, Andhra Pradesh, during the year 2023 - 2024.


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IOT BASED SMART AGRICULTURE
A Main project report submitted in partial fulfilment of the requirement for the
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IN
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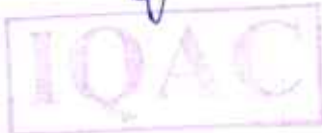
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This is to certify that the Main Project entitled as "IOT BASED SMART AGRICULTURE" is a Bonafide work carried out by **M. KESAVA KRISHNA (21475A0221), J. PREMA RAJU (21475A0203), T. UDAY KIRAN (21475A0242), SK. UMAR (21475A0246)**, under our supervision and guidance in partial fulfilment of requirements for the award of Degree of BACHELOR OF TECHNOLOGY in ELECTRICAL & ELECTRONICS ENGINEERING, from JNTUK, Kakinada, Andhra Pradesh, during the year 2023-2024.

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WIRELESS CHARGING FOR EV USING SOLAR

A main project report submitted in partial fulfillment of the requirement for the Award of
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IN

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This is to certify that the main project entitled **WIRELESS CHARGING FOR EV USING SOLAR** is a bonafide work done by **P.GUPTESWARARAO (21475A0243), K.JITHENDRA (21475A0208), B.BALAGURAVIAH (21475A0248), T.RAVINDRA (21475A0222)**, under our supervision and guidance in partial fulfillment of requirements for the award of Degree of **BACHELOR OF TECHNOLOGY** in **ELECTRICAL AND ELECTRONICS ENGINEERING** from JNTUK, Andhra Pradesh, during the year 2023 - 2024.

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SPEED CONTROL OF DC MOTOR USING IOT

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the award of degree of

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IN

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This is to certify that the Main Project entitled **SPEED CONTROL OF DC MOTOR USING IOT'** is a Bonafide work carried out by **P. VENKATESH (21475A0244), K. MOHANA KRISHNA (21475A0235), G. KARTHIK VENKATA SIVA SAI(21475A0249), G. JESWANTH (21475A0217)** under our supervision and guidance in partial fulfillment of requirements for the award of Degree of **BACHELOR OF TECHNOLOGY** in **ELECTRICAL & ELECTRONICS ENGINEERING**, from JNTUK, Kakinada, Andhra Pradesh, during the year 2023-2024.

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EXTERNAL EXAMINER

21475A0246

IOT BASED SMART AGRICULTURE

A Main project report submitted in partial fulfilment of the requirement for the
award of degree of

BACHELOR OF TECHNOLOGY

IN

ELECTRICAL AND ELECTRONICS ENGINEERING

Submitted By

SK. UMAR	21475A0246
M. KESAVA KRISHNA	21475A0221
J. PREMA RAJU	21475A0203
T. UDAY KIRAN	21475A0242

Under the Esteemed Guidance of

Mr. SK. ABDUL KALAM M.Tech, (Ph.D.)

Assistant Professor



**DEPARTMENT OF ELECTRICAL & ELECTRONICS ENGINEERING
NARASARAOPETA ENGINEERING COLLEGE (AUTONOMOUS)**

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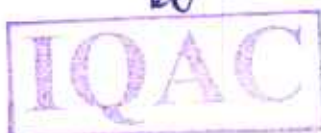
CERTIFICATE

This is to certify that the Main Project entitled as "IOT BASED SMART AGRICULTURE" is a Bonafide work carried out by **M. KESAVA KRISHNA (21475A0221), J. PREMA RAJU (21475A0203), T. UDAY KIRAN (21475A0242), SK. UMAR (21475A0246)**, under our supervision and guidance in partial fulfilment of requirements for the award of Degree of BACHELOR OF TECHNOLOGY in ELECTRICAL & ELECTRONICS ENGINEERING, from JNTUK, Kakinada, Andhra Pradesh, during the year 2023-2024.


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21475A0247

DESIGN OF PIEZOELECTRIC HARVESTER USING FOOTWEAR

A project report submitted in partial fulfillment of the requirement for the award of
degree of
BACHELOR OF TECHNOLOGY
IN
ELECTRICAL AND ELECTRONICS ENGINEERING

Submitted By

K. AKASH	21475A0247
P. NARENDRA REDDY	21475A0213
K. CHANDRA SEKHAR	21475A0228
M. VEERESH	21475A0234

Under the Esteemed Guidance of

G. NAGARAJU M.Tech(Ph.D)

Assistant Professor



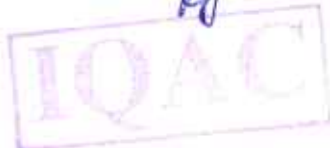
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CERTIFICATE

This is to certify that the Project entitled **"DESIGN OF PIEZOELECTRIC HARVESTER USING FOOTWEAR"** is a bonafide work carried out by **P. NARENDRA REDDY (21475A0213), K.CHANDRA SEKHAR (21475A0228), M. VEERESH (21475A0234), K. AKASH (21475A0247)**, under our supervision and guidance in partial fulfillment of requirements for the award of Degree of BACHELOR OF TECHNOLOGY in ELECTRICAL & ELECTRONICS ENGINEERING, from JNTUK, Kakinada, Andhra Pradesh, during the year 2023-2024.


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21475A0248

WIRELESS CHARGING FOR EV USING SOLAR

A main project report submitted in partial fulfillment of the requirement for the Award of
degree of

BACHELOR OF TECHNOLOGY

IN

ELECTRICAL AND ELECTRONICS ENGINEERING

Submitted by

B. BALAGURAVIAH	21475A0248
K. JITHENDRA	21475A0208
T. RAVINDRA	21475A0222
P. GUPTESWARARAO	21475A0243

Under the Esteemed Guidance of

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Assistant Professor



DEPARTMENT OF ELECTRICAL & ELECTRONICS ENGINEERING

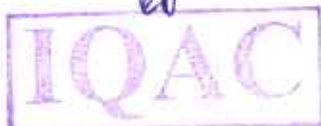
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CERTIFICATE

This is to certify that the main project entitled **WIRELESS CHARGING FOR EV USING SOLAR** is a bonafide work done by **B.BALAGURAVIAH (21475A0248), K.JITHENDRA (21475A0208), T.RAVINDRA (21475A0222), P.GUPTESWARARAO (21475A0243)**, under our supervision and guidance in partial fulfillment of requirements for the award of Degree of **BACHELOR OF TECHNOLOGY** in **ELECTRICAL AND ELECTRONICS ENGINEERING** from JNTUK, Andhra Pradesh, during the year 2023 - 2024.

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21475A0249

SPEED CONTROL OF DC MOTOR USING IOT

A main project report submitted in partial fulfillment of the requirement for
the award of degree of

BACHELOR OF TECHNOLOGY

IN

ELECTRICAL AND ELECTRONICS ENGINEERING

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P.VENKATESH	21475A0244
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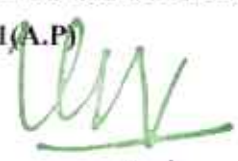
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CERTIFICATE

This is to certify that the Main Project entitled **SPEED CONTROL OF DC MOTOR USING IOT'** is a Bonafide work carried out by **G. KARTHIK VENKATA SIVA SAI(21475A0249), G. JESWANTH (21475A0217), P. VENKATESH (21475A0244), K. MOHANA KRISHNA (21475A0235),** under our supervision and guidance in partial fulfillment of requirements for the award of Degree of BACHELOR OF TECHNOLOGY in ELECTRICAL & ELECTRONICS ENGINEERING, from JNTUK, Kakinada, Andhra Pradesh, during the year 2023-2024.

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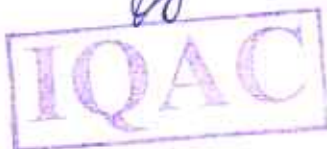
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21475A0250

**OPTIMAL PWM TECHNIQUE BASED CASCADED
H-BRIDGE 31-LEVEL INVERTER**

A Main project report submitted in partial fulfilment of the requirement for the
award of degree of

**BACHELOR OF TECHNOLOGY
IN**

ELECTRICAL AND ELECTRONICS ENGINEERING

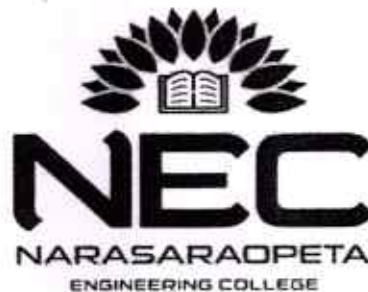
Submitted By

N. RAMESH	21475A0250
P. ROSAIAH	21475A0209
CH. JOSEPH	21475A0219
A. GANGADHARA RAO	21475A0233

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Associate Professor



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CERTIFICATE

This is to certify that the Main Project entitled as "OPTIMAL PWM TECHNIQUE BASED CASCADED H-BRIDGE 31-LEVEL INVERTER" is a Bonafide work carried out by **P. ROSAIAH (21475A0209), CH. JOSEPH (21475A0219), A. GANGADHARA RAO (21475A0233), N. RAMESH (21475A0250)**, under our supervision and guidance in partial fulfilment of requirements for the award of Degree of BACHELOR OF TECHNOLOGY in ELECTRICAL & ELECTRONICS ENGINEERING, from JNTUK, Kakinada, Andhra Pradesh, during the year 2023-2024.

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ELECTRIC VEHICLE

An internship report submitted in partial fulfillment of the requirement for the award
of degree of

BACHELOR OF TECHNOLOGY

IN

ELECTRICAL AND ELECTRONICS ENGINEERING

Submitted By

V. SRINU

20471A0252

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This is to certify that the long term internship entitled "ELECTRIC VEHICLE" is a bonafide work carried out by **V. Srinu (20471A0252)** under our supervision and guidance in partial fulfillment of requirements for the award of Degree of BACHELOR OF TECHNOLOGY in ELECTRICAL & ELECTRONICS ENGINEERING, from JNTUK, Kakinada, Andhra Pradesh, during the year 2023-2024.

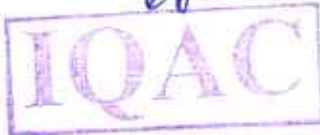
Chou
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**ENHANCING POWER QUALITY FOR VEHICLE-TO-
GRID AND GRID-TO-VEHICLE TECHNOLOGY IN A
MICROGRID USING AN ANN CONTROLLER**

A main project report submitted in partial fulfillment of the requirement for the award
of degree of

BACHELOR OF TECHNOLOGY

IN

ELECTRICAL AND ELECTRONICS ENGINEERING

Submitted By

V. SRINU	20471A0252
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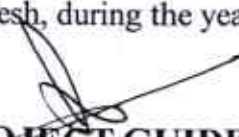
DEPARTMENT OF ELECTRICAL & ELECTRONICS ENGINEERING




CERTIFICATE

This is to certify that the Main Project entitled "Enhancing Power Quality for Vehicle-to-Grid and Grid-to-Vehicle Technology in a Microgrid Using An ANN Controller " is a bonafide work carried out by **A. BHARGAV MAHESH (20471A0202), G. SRAVANI (20471A0214), G. KARTHIK (20471A0211), V. SRINU (20471A0252)**, under our supervision and guidance in partial fulfillment of requirements for the award of Degree of BACHELOR OF TECHNOLOGY in ELECTRICAL & ELECTRONICS ENGINEERING, from JNTUK, Kakinada, Andhra Pradesh, during the year 2023-2024.

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AutoCAD(EEE)

An internship report submitted in partial fulfillment of the requirement for the award
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BACHELOR OF TECHNOLOGY

IN

ELECTRICAL AND ELECTRONICS ENGINEERING

Submitted By

K. RAJ KUMAR

21475A0201

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AUTOCAD(EEE)

An internship report submitted in partial fulfillment of the requirement for the award

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IN

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Submitted By

D.BHUSHANAM

21475A0202

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An internship report submitted in partial fulfillment of the requirement for the award
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IN

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Submitted By

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NARASARAOPET - 522 601.
Guntur (Dist.), A.P.

AUTOCAD(EEE)

An internship report submitted in partial fulfillment of the requirement for the award
of degree of

BACHELOR OF TECHNOLOGY

IN

ELECTRICAL AND ELECTRONICS ENGINEERING

Submitted By

S. BHAAVANI

21475A0204

Under the Esteemed Guidance of

SK. ABDUL KALAM M.Tech,(Ph.D)

Assistant Professor



DEPARTMENT OF ELECTRICAL & ELECTRONICS ENGINEERING

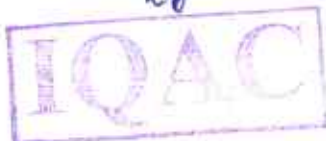
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DEPARTMENT OF ELECTRICAL & ELECTRONICS ENGINEERING



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AUTOCAD(EEE)

An internship report submitted in partial fulfillment of the requirement for the award
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This is to certify that the long term internship entitled "AUTOCAD(EEE)" is a bonafide work carried out by **B.Satyanarayana (21475A0206)** under our supervision and guidance in partial fulfillment of requirements for the award of Degree of BACHELOR OF TECHNOLOGY in ELECTRICAL & ELECTRONICS ENGINEERING, from JNTUK, Kakinada, Andhra Pradesh, during the year 2023-2024.


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An internship report submitted in partial fulfillment of the requirement for the award

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IN

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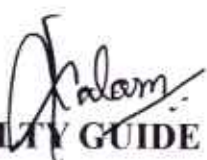
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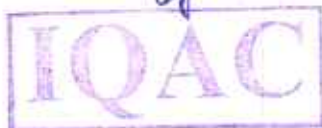
This is to certify that the long term internship entitled "AutoCAD(EEE)" is a bonafide work carried out by **P. JOSHUA RATNA KUMAR (21475A0207)** under our supervision and guidance in partial fulfillment of requirements for the award of Degree of BACHELOR OF TECHNOLOGY in ELECTRICAL & ELECTRONICS ENGINEERING, from JNTUK, Kakinada, Andhra Pradesh, during the year 2023-2024.

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AUTOCAD(EEE)

An internship report submitted in partial fulfillment of the requirement for the award

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Submitted By

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ELECTRIC VEHICLE

An internship report submitted in partial fulfillment of the requirement for the award

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IN

ELECTRICAL AND ELECTRONICS ENGINEERING

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21475A0214

**INTEGRATED SMART E-VEHICLE CHARGING
SYSTEM WITH MULTI INPUT POWER SOURCES
AND ENCHANCED POWER FLOW CONTROL**

A Main project report submitted in partial fulfillment of the requirement for the

Award of degree of

BACHELOR OF TECHNOLOGY

IN

ELECTRICAL AND ELECTRONICS ENGINEERING

Submitted By

J. BALA ANKARAO	21475A0214
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SK. ESUF	21475A0216

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Associate Professor



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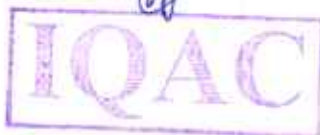
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DEPARTMENT OF ELECTRICAL & ELECTRONICS ENGINEERING



CERTIFICATE

This is to certify that the Main Project entitled "INTEGRATED SMART E-VEHICLE CHARGING SYSTEM WITH MULTI INPUT SOURCES AND ENHANCED POWER FLOW CONTROL" is a bonafide work done by " J. BALA ANKARAO (21475A0214), V. BHUVANESWARI (21475A0205), P. JOSHUVA RATNA KUMAR (21475A0207), SK. ESUF (21475A0216)" under our supervision and guidance in partial fulfillment of requirements for the award of Degree of **BACHELOR OF TECHNOLOGY** in **ELECTRICAL AND ELECTRONICS ENGINEERING** from JNTUK, Andhra Pradesh, during the year 2023- 2024.


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21475A0215

**BATTERY DEGRADATION IN ELECTRIC AND HYBRID
ELECTRIC VEHICLES**

A main project report submitted in partial fulfillment of the requirement for the Award
of degree of

BACHELOR OF TECHNOLOGY

IN

ELECTRICAL AND ELECTRONICS ENGINEERING

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DEPARTMENT OF ELECTRICAL & ELECTRONICS ENGINEERING



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This is to certify that the main project entitled "BATTER DEGRADATION IN ELECTRIC AND HYBRID ELECTRIC VEHICLES" is a bonafide work done by P. AJAY KUMAR (21475A0215), T. VINAY (21475A0210), G. PRUDHVI RAJ (21475A0227), SK. RAFI (21475A0212), under our supervision and guidance in partial fulfillment of requirements for the award of degree of BACHELOR OF TECHNOLOGY in ELECTRICAL AND ELECTRONICS ENGINEERING from JNTUK, Andhra Pradesh, during the year 2023 - 2024.


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**INTEGRATED SMART E-VEHICLE CHARGING
SYSTEM WITH MULTI INPUT POWER SOURCES
AND ENCHANCED POWER FLOW CONTROL**

A Main project report submitted in partial fulfillment of the requirement for the

Award of degree of

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IN

ELECTRICAL AND ELECTRONICS ENGINEERING

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SPEED CONTROL OF DC MOTOR USING IOT

A project report submitted in partial fulfillment of the requirement for the award
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IN

ELECTRICAL AND ELECTRONICS ENGINEERING

Submitted By

G. JESWANTH	21475A0217
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This is to certify that the Main Project entitled "SPEED CONTROL OF DC MOTOR USING IOT" is a Bonafide work carried out by **G. JESWANTH (21475A0217), P. VENKATESH (21475A0244), K. MOHANA KRISHNA (21475A0235), G. KARTHIK VENKATA SIVA SAI (21475A0249)** under our supervision and guidance in partial fulfillment of requirements for the award of Degree of **BACHELOR OF TECHNOLOGY** in **ELECTRICAL & ELECTRONICS ENGINEERING**, from JNTUK, Kakinada, Andhra Pradesh, during the year 2023-2024.

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21475A0218.

**DESIGN AND DEVELOPMENT OF A SMART STICK
USING GPS AND GSM MODULES FOR BLIND PEOPLE**
A Main project report submitted in partial fulfilment of the requirement for the
award of degree of

**BACHELOR OF TECHNOLOGY
IN
ELECTRICAL AND ELECTRONICS ENGINEERING**

Submitted By

T. LAKSHMI RAHUL	21475A0218
D. BALA TRIPURA SUNDARI	21475A0220
R. SHYAM SUNDAR	21475A0232
P. TEJA BABU	21475A0225

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DEPARTMENT OF ELECTRICAL & ELECTRONICS ENGINEERING



This is to certify that the Main Project entitled as "DESIGN AND DEVELOPMENT OF A SMART STICK USING GPS AND GMS MODULES FOR BLIND PEOPLE" is a Bonafide work carried out by **D. BALA TRIPURA SUNDARI (21475A0220), R.SHYAM SUNDAR (21475A0232), T.LAKSHMI RAHUL (21475A0218), P.TEJA BABU (21475A0225)** under our supervision and guidance in partial fulfilment of requirements for the award of Degree of BACHELOR OF TECHNOLOGY in ELECTRICAL & ELECTRONICS ENGINEERING, from JNTUK, Kakinada, Andhra Pradesh, during the year 2023-2024.

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NARASARAOPETA ENGINEERING COLLEGE
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NARASARAOPET - 522 601
Guntur (Dist.), A.P.



2147SA0219

**OPTIMAL PWM TECHNIQUE BASED CASCADED
H-BRIDGE 31-LEVEL INVERTER**

A Main project report submitted in partial fulfilment of the requirement for the
award of degree of

BACHELOR OF TECHNOLOGY

IN

ELECTRICAL AND ELECTRONICS ENGINEERING

Submitted By

CH. JOSEPH	21475A0219
P. ROSAIAH	21475A0209
A. GANGADHARA RAO	21475A0233
N. RAMESH	21475A0250

Under the Esteemed Guidance of

Dr. SK. MD. SHAREEF M.Tech, Ph.D

Associate Professor



DEPARTMENT OF ELECTRICAL & ELECTRONICS ENGINEERING

NARASARAOPETA ENGINEERING COLLEGE (AUTONOMOUS)


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2023-2024




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DEPARTMENT OF ELECTRICAL & ELECTRONICS ENGINEERING



CERTIFICATE

This is to certify that the Main Project entitled as “**OPTIMAL PWM TECHNIQUE BASED CASCADED H-BRIDGE 31-LEVEL INVERTER**” is a Bonafide work carried out by **P. ROSAIAH (21475A0209), CH. JOSEPH (21475A0219), A. GANGADHARA RAO (21475A0233), N. RAMESH (21475A0250)**, under our supervision and guidance in partial fulfilment of requirements for the award of Degree of **BACHELOR OF TECHNOLOGY** in **ELECTRICAL & ELECTRONICS ENGINEERING**, from JNTUK, Kakinada, Andhra Pradesh, during the year 2023-2024.



PROJECT GUIDE

Dr. SK.MD. SHAREEF M. Tech, Ph. D

Assoc. Professor, Dept. of EEE

Narasaraopeta Engineering College

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HEAD OF DEPARTMENT

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NARASARAOPET - 522 601.
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SUBSTATION DESIGN

An internship report submitted in partial fulfillment of the requirement for the award
of degree of

BACHELOR OF TECHNOLOGY

IN

ELECTRICAL AND ELECTRONICS ENGINEERING

Submitted By

M.VEERESH

21475A0234

Under the Esteemed Guidance of

Mr. G. NAGARAJU M.Tech (Ph.D)

Associate Professor, Dept. of EEE



DEPARTMENT OF ELECTRICAL & ELECTRONICS ENGINEERING

NARASARAOPETA ENGINEERING COLLEGE(AUTONOMOUS)


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2023-2024




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DEPARTMENT OF ELECTRICAL & ELECTRONICS ENGINEERING



CERTIFICATE

This is to certify that the long term internship entitled "SUBSTATION DESIGN" is a bonafide work carried out by **M.VEERESH (21475A0234)** under our supervision and guidance in partial fulfillment of requirements for the award of Degree of BACHELOR OF TECHNOLOGY in ELECTRICAL & ELECTRONICS ENGINEERING, from JNTUK, Kakinada, Andhra Pradesh, during the year 2023-2024.

FACULTY GUIDE

Mr. G.NAGARAJU M.Tech(Ph.D)
Associate Professor, Dept. of EEE
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EXTERNAL EXAMINER

PRINCIPAL
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NARASARAOPET - 522 601,
Guntur (Dist.), A.P.

AUTOCAD(EEE)

A internship report submitted in partial fulfillment of the requirement for the award of
degree of

BACHELOR OF TECHNOLOGY

IN

ELECTRICAL AND ELECTRONICS ENGINEERING

Submitted By

K. MOHANA KRISHNA

21475A0235

Under the Esteemed Guidance of

Mr. G. NAGARAJU M.Tech(Ph. D)

Associate Professor, Dept. of EEE



DEPARTMENT OF ELECTRICAL & ELECTRONICS ENGINEERING

NARASARAOPETA ENGINEERING COLLEGE(AUTONOMOUS)

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2023-2024




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Guntur (Dist.), A.P.

NARASARAOPETA ENGINEERING COLLEGE(AUTONOMOUS)

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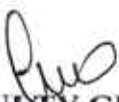
NARASARAOPET-522601(A.P)

DEPARTMENT OF ELECTRICAL & ELECTRONICS ENGINEERING



CERTIFICATE

This is to certify that the long term internship entitled "AUTOCAD(EEE)" is a bonafide work carried out by **K. MOHANA KRISHNA (21475A0235)** under our supervision and guidance in partial fulfillment of requirements for the award of Degree of BACHELOR OF TECHNOLOGY in ELECTRICAL & ELECTRONICS ENGINEERING, from JNTUK, Kakinada, Andhra Pradesh, during the year 2023-2024.


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Assoc Professor, Dept. of EEE
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EXTERNAL EXAMINER



PRINCIPAL
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(AUTOCAD UNIT)
NARASARAOPET - 522 601,
Guntur (Dist.), A.P.



AUTOCAD (EEE)

An internship report submitted in partial fulfillment of the requirement for the award
of degree of

BACHELOR OF TECHNOLOGY

IN

ELECTRICAL AND ELECTRONICS ENGINEERING

Submitted By

S. NAVEEN

21475A0237

Under the Esteemed Guidance of

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Associate Professor



DEPARTMENT OF ELECTRICAL & ELECTRONICS ENGINEERING

NARASARAOPETA ENGINEERING COLLEGE (AUTONOMOUS)

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(Approved by AICTE, New Delhi & Permanent Affiliated to JNTUK, Kakinada)

NARASARAOPET-522601(A.P)

2023-2024




NARASARAOPETA ENGINEERING COLLEGE
NARASARAOPETA
KAKINADA

NARASARAOPETA ENGINEERING COLLEGE: NARASARAOPET
(AUTONOMOUS)
DEPARTMENT OF INFORMATION TECHNOLOGY



CERTIFICATE

This is to certify that the project entitled "THYROID DISEASES PREDICTION USING MACHINE LEARNING" is a bonafide work done by "A.Aswini (20471A1201), Sk.N.Nazma (20471A1254), B.Prasanthi (20471A1203)" in partial fulfillment of the requirements for the award of the degree of BACHELOR OF TECHNOLOGY in the Department of INFORMATION TECHNOLOGY during the academic year 2023- 2024.

PROJECT GUIDE

K. JAYA PRAKASH, M.Tech.,(Ph.D)

Asst. Professor

PROJECT CO-ORDINATOR

K. JAYA PRAKASH, M.Tech.,(Ph.D)

Asst. Professor

HEAD OF THE DEPARTMENT

Dr. B. JHANSI VAZRAM, M.Tech.,Ph.D

Professor & Head

Professor & Head

Dept. of IT & CSE (AI)

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EXTERNAL EXAMINER

PRINCIPAL

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NARASARAOPET - 522 601

Guntur (Dist.), A.P.

Viva Voce Date:



NARASARAOPETA ENGINEERING COLLEGE: NARASARAOPET
(AUTONOMOUS)

DEPARTMENT OF INFORMATION TECHNOLOGY



CERTIFICATE

This is to certify that the project entitled "**PREDICTIVE ANALYSIS OF BIGMART SALES USING MACHINE LEARNING**" is a bonafide Work done by "**SK. AFROZ (20471A1251), A. RAJSHEKHAR REDDY (20471A1202), R. GANESH (20471A1248)**" in partial fulfilment of the requirements for the award of the degree of **BACHELOR OF TECHNOLOGY** in the Department of **INFORMATION TECHNOLOGY** during **2023- 2024**

PROJECT GUIDE
Mr. K. Jaya Prakash M.Tech. (Ph.D)
Asst. Professor

PROJECT COORDINATOR
Mr. K. Jaya Prakash M.Tech. (Ph.D)
Asst. Professor

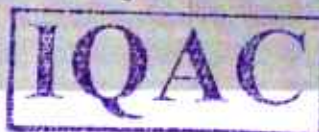
HEAD OF THE DEPARTMENT
Dr. B. Jhansi Vazram M.Tech. Ph.D
Professor & HOD

EXTERNAL EXAMINER

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NARASARAOPETA ENGINEERING COLLEGE: NARASARAOPET
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DEPARTMENT OF INFORMATION TECHNOLOGY



CERTIFICATE

This is to certify that the project entitled "THYROID DISEASES PREDICTION USING MACHINE LEARNING" is a bonafide work done by "A.Aswini (20471A1201), Sk.N.Nazma (20471A1254), B.Prasanthi (20471A1203)" in partial fulfillment of the requirements for the award of the degree of BACHELOR OF TECHNOLOGY in the Department of INFORMATION TECHNOLOGY during the academic year 2023- 2024.

PROJECT GUIDE

K. JAYA PRAKASH, M.Tech.,(Ph.D)

Asst. Professor

PROJECT CO-ORDINATOR

K. JAYA PRAKASH, M.Tech.,(Ph.D)

Asst. Professor

HEAD OF THE DEPARTMENT

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Viva Voce Date:



NARASARAOPETA ENGINEERING COLLEGE: NARASARAOPET
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DEPARTMENT OF INFORMATION TECHNOLOGY



CERTIFICATE

This is to certify that the project entitled "Machine Learning Applications For Predicting Calorie Burn" is a bonafide work done by the team Y. Vennela (20471A1260), K. Aruna (20471A1227), J. Sushma (20471A1A1222) in partial fulfillment of the requirements for the award of the degree of BACHELOR OF TECHNOLOGY in the Department of INFORMATONTECHNOLOGY during the academic year 2023-2024.

PROJECT GUIDE

K. Jaya Prakash, M.Tech.,(Ph.D.)
Asst. Professor

PROJECT CO-ORDINATOR

K. Jaya Prakash M.Tech.,(Ph.D.)
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NARASARAOPET - 522 601, Palnadu Dist., A.P.

EXTERNAL EXAMINER

Viva Voce Date.... 11/05/24

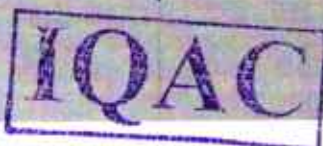
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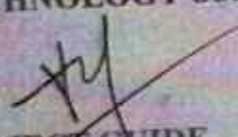


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(AUTONOMOUS)
DEPARTMENT OF INFORMATION TECHNOLOGY




CERTIFICATE

This is to certify that the project entitled "A SECURE DATA SHARING AND AUTHORIZED SEARCHABLE FRAMEWORK FOR E-HEALTHCARE SYSTEM" is a bonafide work done by "G. Gopi Chand (20471A1221), K. Sai Dheeraj (20471A1231)," in partial fulfillment of the requirements for the award of the degree of BACHELOR OF TECHNOLOGY in the Department of INFORMATION TECHNOLOGY during the academic year 2023- 2024.


PROJECT GUIDE

U. VIJAY KUMAR, M.Tech.,(Ph.D)

Asst. Professor


PROJECT CO-ORDINATOR

K. JAYA PRAKASH, M.Tech.(Ph.D)


Asst. Professor

HEAD OF THE DEPARTMENT


Dr. B. JHANSI VAZRAM, M.Tech.,Ph.D

Professor & Head


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NIRF Ranking 251-300 Band Accredited by NAAC "A+" Grade)

DEPARTMENT OF INFORMATION TECHNOLOGY



BONAFIDE CERTIFICATE

This is to certify that a project report entitled "Big Mart Sales Prediction Using Machine Learning". Being submitted by CH. BHANU PRAKASH , K .KARTHIK, CH. MANIKANTA bearing H.T. No 19471A1207, 19471A1213, 19471A1211 respectively, of IV B.Tech II semester in the department of INFORMATION TECHNOLOGY in partial fulfilment of the requirements for award of BACHELOR OF TECHNOLOGY in NARSARAOPETA ENGINEERING COLLEGE, during 2019-2023.

P. Ramesh Babu
PROJECT GUIDE

Mr. P. RAMESH BABU

M.Tech(Ph.D)

Assistant Professor

[Signature]
HEAD OF THE DEPARTMENT

Dr. G. SYAM PRASAD

M.Tech, Ph.D

Professor, HOD

NARASARAOPETA - 522 601, Guntur (Dist.), A.P.
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NARASARAOPETA ENGINEERING COLLEGE
Dept. of Information Technology
PROFESSOR

[Signature]
EXTERNAL EXAMINER

[Signature]
PRINCIPAL

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NARASARAOPETA - 522 601
Guntur (Dist.), A.P.



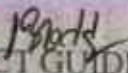
NARASARAOPETA ENGINEERING COLLEGE : NARASARAOPET
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DEPARTMENT OF INFORMATION TECHNOLOGY



CERTIFICATE

This is to certify that the project that is entitled with the name "WATER QUALITY PREDICTION USING MACHINE LEARNING TECHNIQUES" is a bonafide work done by the team K. Mukhesh Sai (20471A1223), D. Sunil (20471A1213), D. Surya (20471A1216) in partial fulfilment of the requirements for the award of the degree of BACHELOR OF TECHNOLOGY in the Department of INFORMATION TECHNOLOGY during the academic year 2023-2024.


PROJECT GUIDE

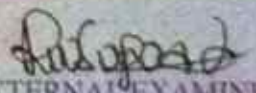
Mr. M. Ramakrishna Reddy, M.Tech.
Asst. Professor


PROJECT CO-ORDINATOR

Mr. K. Jaya Prakash, M.Tech., (Ph.D.)
Asst. Professor


HEAD OF THE DEPARTMENT


Dr. B. Jhansi Vazram, M.Tech., Ph.D.
Professor & Head


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Professor & Head
Dept. of IT & CBE (AI)
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NARASARAOPETA ENGINEERING COLLEGE: NARASARAOPET
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DEPARTMENT OF INFORMATION TECHNOLOGY



CERTIFICATE

This is to certify that the project entitled "PREDICTIVE ANALYSIS OF BIGMART SALES USING MACHINE LEARNING" is a bonafide Work done by "SK. AFROZ (20471A1251), A. RAJSHEKHAR REDDY (20471A1202), R. GANESH (20471A1248)" in partial fulfilment of the requirements for the award of the degree of BACHELOR OF TECHNOLOGY in the Department of INFORMATION TECHNOLOGY during 2023-2024

PROJECT GUIDE
Mr. K. Jaya Prakash M.Tech. (Ph.D)
Asst. Professor

PROJECT COORDINATOR
Mr. K. Jaya Prakash M.Tech. (Ph.D)
Asst. Professor

HEAD OF THE DEPARTMENT
Dr. B. Jhansi Vazram M.Tech, Ph.D
Professor & HOD

EXTERNAL EXAMINER

Professor & Head

Dept. of Information Technology (AI)

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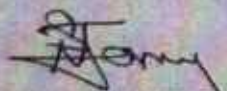
NARASARAOPETA ENGINEERING COLLEGE: NARASARAOPET
(AUTONOMOUS)

DEPARTMENT OF INFORMATION TECHNOLOGY



CERTIFICATE

This is to certify that the project entitled "BOOK RECOMMENDATION SYSTEM USING MACHINE LEARNING" is a bonafide work done by "O. VENKATA ASHOK (20471A1242), B. PENCHALA PRATHAP (20471A1208), O. JAYA KRISHNA (20471A1243)" in partial fulfillment of the requirements for the award of the degree of BACHELOR OF TECHNOLOGY in the Department of INFORMATION TECHNOLOGY during the academic year 2023- 2024.



PROJECT GUIDE

Sk. Mohammed Jany, M.Tech., (Ph.D.)
Asst. Professor




PROJECT CO-ORDINATOR

K. Jaya Prakash, M.Tech. (Ph.D.)
Asst. Professor



HEAD OF THE DEPARTMENT

Dr. B. Jhansi Vazram, M.Tech., Ph.D.
Professor & HOD



EXTERNAL EXAMINER

Professor & Head
Dept. of IT & CSE (AI)

NARASARAOPETA ENGINEERING COLLEGE

NARASARAOPETA DIST. A.P.



Viva Voce Date.....



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NARASARAOPETAENGINEERINGCOLLEGE: NARASARAOPET
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DEPARTMENT OF INFORMATION TECHNOLOGY



CERTIFICATE

This is to certify that the project entitled "CLASSIFYING CLINICALLY ACTIONABLE GENETIC MUTATIONS" is a bonafide work done by "R.Nitheesh (20471A1249),B.Harshavardhan Reddy(20471A1204), Sd.Manjar Hussain (20471A1255)" in partial fulfillment of the requirements for the award of the degree of BACHELOR OF TECHNOLOGY in the Department of INFORMATION TECHNOLOGY during the academic year 2023- 2024.

PROJECT GUIDE

M.Ravindra Babu, M.Tech.

Asst. Professor

PROJECT CO-ORDINATOR

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HEAD OF THE DEPARTMENT

Dr. B. Jhansi Vazram, M.Tech., Ph.D

Professor & HOD

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NARASARAOPET - 522 601, Guntur Dist., A.P.

Viva Voce Date:



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(AUTONOMOUS)

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Guntur (Dist.), A.P.

**-NARASARAOPETA ENGINEERING COLLEGE: NARASARAOPET
(AUTONOMOUS)**

DEPARTMENT OF INFORMATION TECHNOLOGY



CERTIFICATE

This is to certify that the project entitled "CARDIOVASCULAR DISEASE PREDICTION USING MACHINE LEARNING" is a bonafide work done by "M. Sai Krishna (20471A1234), B. Siddhartha (21475A1205), K. Sunny (20471A1228)" in partial fulfillment of the requirements for the award of the degree of BACHELOR OF TECHNOLOGY in the Department of INFORMATION TECHNOLOGY during the academic year 2023- 2024.


PROJECT GUIDE


M. Ramakrishna Reddy, M.Tech.,(Ph.D)
Asst. Professor


PROJECT CO-ORDINATOR

K. Jaya Prakash, M.Tech.,(Ph.D)
Asst. Professor


HEAD OF THE DEPARTMENT


Dr. B. Jhansi Vazram, M.Tech.,Ph.D
Professor & Head


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Dept. of IT & CS (AI)
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NARASARAOPET - 522 601, Palnadu Dist., A.P.

Viva Voce Date: ...11/05/2024...




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(AUTONOMOUS)
NARASARAOPET - 522 601,
Guntur (Dist.), A.P.

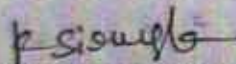
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(AUTONOMOUS)


DEPARTMENT OF INFORMATION TECHNOLOGY




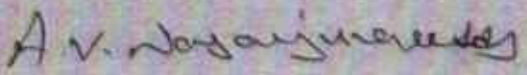
CERTIFICATE

This is to certify that the project that is entitled with the name "COVID-19 FORECASTING: LEVERAGING MACHINE LEARNING FOR FUTURE INSIGHTS" is a bonafide work done by the team Mylavarapu Karthik (20471A1239), Dabbukottu Srihari (20471A1212), Nosina Siva Prasad (20471A1241) in partial fulfilment of the requirements for the award of the degree of BACHELOR OF TECHNOLOGY in the Department of INFORMATIONTECHNOLOGY during the academic year 2023-2024.


PROJECT GUIDE
K. Sireesha, M. Tech.
Asst. Professor


PROJECT CO-ORDINATOR
Mr. K. Jaya Prakash, M. Tech. (Ph.D)
Asst. Professor



HEAD OF THE DEPARTMENT
Dr. B. Jhansi Vazram, M. Tech., Ph.D.,
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DEPARTMENT OF INFORMATION TECHNOLOGY



CERTIFICATE

This is to certify that the project that is entitled with the name "PHISHING URL DETECTION USING MACHINE LEARNING" is a bonafide work done by V. YESWANTH (20471A1259), M. RAJASHEKAR (20471A1236), M. MANIKANTA (20471A1235) in partial fulfillment of the requirements for the award of the degree of BACHELOR OF TECHNOLOGY in the Department of INFORMATION TECHNOLOGY during the academic year 2023 - 2024.


PROJECT GUIDE

P. Vijayalakshmi, M. Tech

Asst. Professor


PROJECT CO-ORDINATOR

K. Jaya Prakash, M. Tech., (Ph.D)

Asst. Professor


HEAD OF THE DEPARTMENT

Dr. B. Jhansi Vazram, M. Tech., Ph.D

Professor & HOD


EXTERNAL EXAMINER

Professor & Head

Dept. of IT & CE (AO)

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Viva Voce Date: 11/05/2024


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CERTIFICATE

This is to certify that the project entitled "IDENTIFICATION OF FAKE NEWS USING MACHINE LEARNING" is a bonafide work done by "G.Phanindhar (20471A1218), K.Gopi (20471A1229), CH.Surendra (20471A1211)" in partial fulfillment of the requirements for the award of the degree of BACHELOR OF TECHNOLOGY in the Department of INFORMATION TECHNOLOGY during the academic year 2023-2024.


PROJECT GUIDE

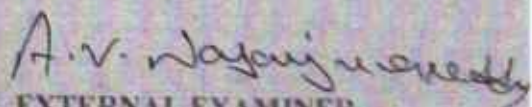
U. Vijay Kumar, M.Tech., (Ph.D)
Asst. Professor


PROJECT CO-ORDINATOR

K. Jaya Prakash, M.Tech., (Ph.D)
Asst. Professor


HEAD OF THE DEPARTMENT

Dr. B. Jhansi Vazram, M.Tech., Ph.D
Professor & HOD

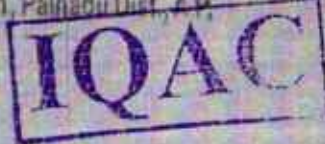

EXTERNAL EXAMINER

Professor & Head
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DEPARTMENT OF INFORMATION TECHNOLOGY



CERTIFICATE

This is to certify that the project entitled "Machine Learning-Based Helmet Detection and Automatic License Plate Recognition" is a bonafide work done by "SK. Mynampati Asmath (20471A1253), K. Srija(20471A1232), B. Sai Lakshmi Aparna(20471A1205)" in partial fulfillment of the requirements for the award of the degree of **BACHELOR OF TECHNOLOGY** in the Department of **INFORMATION TECHNOLOGY** during the academic year 2023- 2024.

PROJECT GUIDE

T. Venkata Manohar, M.Tech.,
Asst. Professor

PROJECT CO-ORDINATOR

K. Jaya Prakash, M.Tech.,(Ph.D)
Asst. Professor

HEAD OF THE DEPARTMENT

Dr. B. Jhansi Vazram, M.Tech., Ph.D
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A.V. Nagarajureddy
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This is to certify that the project entitled "PREDICTING FOREST FIRE USING MACHINE LEARNING" is a bonafide work done by "M.Sai Gowthami (20471A1238), G.Nikhila (20471A1220), V.Meher Premi (20471A1258)" in partial fulfillment of the requirements for the award of the degree of BACHELOR OF TECHNOLOGY in the Department of INFORMATION TECHNOLOGY during the academic year 2023-2024.

M. Rama Krishna Reddy
PROJECT GUIDE

M. Rama Krishna Reddy, M.Tech., (Ph.D.),
Asst. Professor

K. Jaya Prakash
PROJECT CO-ORDINATOR

K. Jaya Prakash, M.Tech., (Ph.D.),
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Dr. B. Jhansi Vazram
HEAD OF THE DEPARTMENT

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A. V. Jayarajana Reddy
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CERTIFICATE

This is to certify that the project entitled "Predicting Restaurant Rating Using Extra Tree Regression" is a bonafide work done by the team M.Mahendra Reddy (20471A1237), CH.Sai Ram (21475A1203), Y.Shanmukh Vardhan(20471A1A1261) in partial fulfillment of the requirements for the award of the degree of BACHELOR OF TECHNOLOGY in the Department of INFORMATON TECHNOLOGY during the academic year 2023-2024.

PROJECT GUIDE

P.Santhi, M.Tech.

Asst. Professor

PROJECT CO-ORDINATOR

K. Jaya Prakash, M.Tech.(Ph.D)

Asst. Professor

HEAD OF THE DEPARTMENT

Dr. B. Jhansi Vazram, M.Tech., Ph.D.,

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Professor & Head
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CERTIFICATE

This is to certify that the project entitled "Machine Learning Applications For Predicting Calorie Burn" is a bonafide work done by the team Y. Vennela (20471A1260), K. Aruna (20471A1227), J. Sushma (20471A1A1222) in partial fulfillment of the requirements for the award of the degree of BACHELOR OF TECHNOLOGY in the Department of INFORMATION TECHNOLOGY during the academic year 2023-2024.

PROJECT GUIDE

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Asst. Professor

HEAD OF THE DEPARTMENT

Dr. B. Jhansi Vazram, M.Tech., Ph.D.,
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K. Jaya Prakash M.Tech.,(Ph.D.)
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CERTIFICATE

This is to certify that the project entitled "DIABETES PREDICTION USING MACHINE LEARNING TECHNIQUES" is a bonafide work done by the team "P. Abdul Azeez (20471A1245), T. Rohit (20471A1256), T. Vinod Kumar (21475A1206)" in partial fulfillment of the requirements for the award of the degree of BACHELOR OF TECHNOLOGY in the Department of INFORMATION TECHNOLOGY during the academic year 2023- 2024.

PROJECT GUIDE

Shaik Mohammed Jany, M.Tech., (Ph.D.)
Asst. Professor

PROJECT CO-ORDINATOR

K. Jaya Prakash, M.Tech., (Ph.D.)
Asst. Professor

HEAD OF THE DEPARTMENT

Dr. B. Jhansi Vazram, M.Tech., Ph.D.,
Professor & Head

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Professor & Head
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CERTIFICATE

This is to certify that the project entitled "LOAN PREDICTION SYSTEM BASED ON MACHINE LEARNING" is a bonafide work done by "B.Poojitha (20471A1207), G.Meghana (20471A1217), G.Bindu (20471A1219)" in partial fulfillment of the requirements for the award of the degree of BACHELOR OF TECHNOLOGY in the Department of INFORMATION TECHNOLOGY during the academic year 2023- 2024.

PROJECT GUIDE

Sk. Mohammed Jany, M.Tech.,(Ph.D)
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CERTIFICATE

This is to certify that the project that is entitled with the name "STRESS DETECTION IN IT PROFESSIONALS USING MACHINE LEARNING" is a bonafide work done by the team N.Manideep (20471A1240), Y.Bhanu Kiran Reddy(20471A1262), T.Ebinazer (21475A1202), M.Bharadhwaj(20471A1210) in partial fulfillment of the requirements for the award of the degree of BACHELOR OF TECHNOLOGY in the Department of INFORMATON TECHNOLOGY during the academic year 2023- 2024.


PROJECT GUIDE

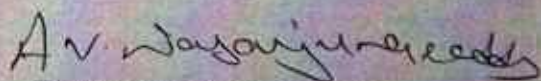
B. Veera Brahmam, M.Tech,
Asst. Professor


PROJECT CO-ORDINATOR

K. Jaya Prakash, M.Tech,(Ph.D.)
Asst. Professor



HEAD OF THE DEPARTMENT

Dr. B. Jhansi Vazram, M.Tech., Ph.D.,
Professor & Head


EXTERNAL EXAMINER

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CERTIFICATE

This is to certify that the project that is entitled with the name "ROAD ACCIDENTS RISK PREDICITON USING MACHINE LEARNING APPROACHES" is a bonafide work done by the team P. MOHAMMAD AZAM (20471A1246), K. OM SHIVA REDDY (20471A1230), D. AKASH (20471A1215), in partial fulfillment of the requirements for the award of the degree of BACHELOR OF TECHNOLOGY in the Department of INFORMATION TECHNOLOGY during the academic year 2023 - 2024.

PROJECT GUIDE

Dr. B. Jhansi Vazram, M.Tech.,Ph.D

Professor & Head

PROJECT CO-ORDINATOR

K. Jaya Prakash, M.Tech.,(Ph.D)

Asst. Professor

HEAD OF THE DEPARTMENT

Dr. B. Jhansi Vazram, M.Tech.,Ph.D

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Professor & Head

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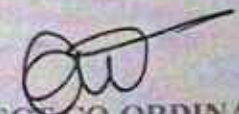
CERTIFICATE

This is to certify that the project that is entitled with the name "ROAD ACCIDENTS RISK PREDICITON USING MACHINE LEARNING APPROACHES" is a bonafide work done by the team P. MOHAMMAD AZAM (20471A1246), K. OM SHIVA REDDY (20471A1230), D. AKASH (20471A1215), in partial fulfillment of the requirements for the award of the degree of BACHELOR OF TECHNOLOGY in the Department of INFORMATION TECHNOLOGY during the academic year 2023 - 2024.


PROJECT GUIDE

Dr. B. Jhansi Vazram, M.Tech., Ph.D

Professor & Head


PROJECT CO-ORDINATOR

K. Jaya Prakash, M.Tech., (Ph.D)

Asst. Professor


HEAD OF THE DEPARTMENT

Dr. B. Jhansi Vazram, M.Tech., Ph.D

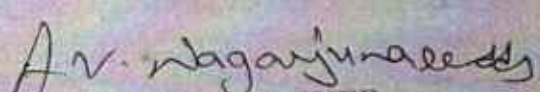
Professor & Head
Professor & Head
Dept. of IT & CSE (AI)

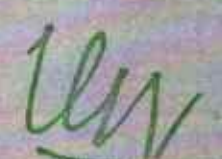
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NARASARAOPETA ENGINEERING COLLEGE: NARASARAOPET
(AUTONOMOUS)

DEPARTMENT OF INFORMATION TECHNOLOGY



CERTIFICATE

This is to certify that the project entitled "Dual Access Control Frameworks For Data Exchange And Storage in the Cloud about the Cloud Computing" is a bonafide work done by "T.Bhagyalakshmi (20471A1257), D.G.V.L.Pranitha (20471A1214), Ch. Sankeerthana (20471A1209)" in partial fulfillment of the requirements for 1the award of the degree of BACHELOR OF TECHNOLOGY in the Department of INFORMATION TECHNOLOGY during the academic year 2023-2024.



PROJECT GUIDE

U.Vijay Kumar, M.Tech.,(Ph.D)
Asst.Professor



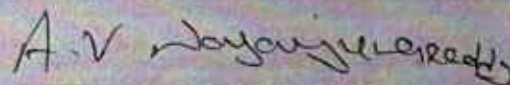
PROJECT CO-ORDINATOR

K.Jaya Prakash, M.Tech.,(Ph.D)
Asst.Professor




HEAD OF THE DEPARTMENT

Dr.B.Jhansi Vazram, M.Tech., Ph.D
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Viva Voce Date:.....

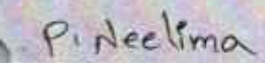
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CERTIFICATE

This is to certify that the project that is entitled with the name "TOURIST PLACES REVIEWS SENTIMENT CLASSIFICATION USING MACHINE LEARNING" is a bonafide work done by the team PARUCHURI VAMSIKRISHNA (20471A1244), KOTAPATI CHANDU DURGA SAI (21475A1204), KULLI SUDHAKAR (20471A1233) in partial fulfilment of the requirements for the award of the degree of **BACHELOR OF TECHNOLOGY** in the Department of **INFORMATION TECHNOLOGY** during the academic year 2023-2024.


PROJECT GUIDE
P. Neelima M. Tech.
Asst. Professor


PROJECT CO-ORDINATOR
Mr. K. Jaya Prakash M. Tech.,(Ph.D)
Asst. Professor

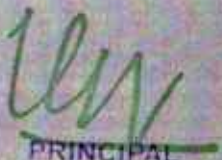

HEAD OF THE DEPARTMENT
Dr. B. Jhansi Vazram M. Tech., Ph.D.,
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Professor & Head
Dept. of IT & CSE (AI)


EXTERNAL EXAMINER

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CERTIFICATE

This is to certify that the project entitled "THYROID DISEASES PREDICTION USING MACHINE LEARNING" is a bonafide work done by "A.Aswini (20471A1201), Sk.N.Nazma (20471A1254), B.Prasanthi (20471A1203)" in partial fulfillment of the requirements for the award of the degree of BACHELOR OF TECHNOLOGY in the Department of INFORMATION TECHNOLOGY during the academic year 2023- 2024.

PROJECT GUIDE

K. JAYA PRAKASH, M.Tech.,(Ph.D)
Asst. Professor

PROJECT CO-ORDINATOR
K. JAYA PRAKASH, M.Tech.,(Ph.D)
Asst. Professor

HEAD OF THE DEPARTMENT

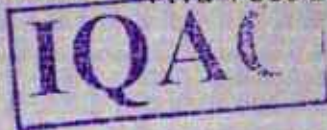
Dr. B. JHANSI VAZRAM, M.Tech.,Ph.D
Professor & Head

EXTERNAL EXAMINER

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Dept. of IT & CSE (AI)
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CERTIFICATE


This is to certify that the project entitled "E-COMMERCE SITES RECOMMENDATION SYSTEM USING MACHINE LEARNING" is a bonafide work done by "Shaik Allabakshu (20471A1252), Patan Mahaboob Subhani (21475A1201), Bejjam Surya (20471A1206)" in partial fulfilment of the requirements for the award of the degree of the **BACHELOR OF TECHNOLOGY** in the Department of **INFORMATION TECHNOLOGY** during the academic year 2023- 2024.


PROJECT GUIDE

Dr. B. Jhansi Vazram M.Tech., Ph.D.
Professor & Head


PROJECT COORDINATOR

Mr. K. Jaya Prakash M. Tech (Ph. D)
Asst. Professor


HEAD OF THE DEPARTMENT

Dr. B. Jhansi Vazram M.Tech, Ph. D.
Professor & Head
Professor & Head
Dept. of IT & CSE (AI)

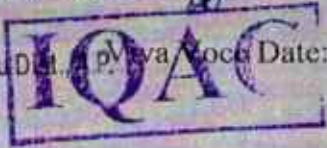
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NARASARAOPET - 522 601, Palnadu Dist., A.P.


Date:

By:

Signature:

Stamp: 


EXTERNAL EXAMINER


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DEPARTMENT OF M.B.A., NARASARAOPET - 522601



This is to certify that the project entitled "A STUDY ON TRAINING AND DEVELOPMENT WITH REFERENCE TO SRI PUSHPAVATHI AGRO TECH PVT.LTD" is being submitted by KONDREDDY ANIL KUMAR REDDY bearing Regd. No.224711:0034 in partial fulfillment of requirement for the award of the degree of M B A in **NARASARAOPETA ENGINEERING COLLEGE (Autonomous)**, affiliated to Jawaharlal Nehru Technological University, Kakinada is record of bonafide work carried out by her under our guidance and supervision .

The results presented in this report have been verified and are found to be satisfactory. The results embodied in this record have not been submitted to any other University for the award of any other degree.


 Project Guide
Dr.Y.ANKI REDDY
MBA, Ph.D
 Assistant professor


 Head of the Department
Dr. P.PATTABHI RAM.
MBA, M.com, M.Phil., Ph.D
 professor and HOD


 External Examiner


IQAC


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 Guntur (Dist.), A.P.

CERTIFICATE

This is to certify that the project entitled "A STUDY ON RECRUITMENT AND SELECTION WITH REFERENCE TO KRISHNA DISTRICT PRODUCERS' MUTUALLY AIDED MILK CO-OP UNION LTD is being submitted by V.MADHU PRIYA bearing reg.no. 22471E0087 in partial fulfillment of requirement for the award of degree of Master Of Business Administration in Narasaraopeta Engineering College (Autonomous), affiliated to Jawaharlal Nehru Technological University, Kakinada is record of bonafide work carried out by her under our guidance and supervision.

The result presented in this thesis have been verified and are found to be satisfactory. The result embodied in this thesis have not been submitted to any other university for theaward of any other degree.



Project guide,
SALMA
MBA. (PH.D.)
Assistant professor



Head of the department
DR.P. Pattabhiram
MBA., M, Phill., PH.D
professor &HOD



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CERTIFICATE

This is to certify that the project entitled "A STUDY ON PERFORMANCE APPRAISAL WITH REFERANCE TO SIVA SWATI TEXTILES PVT.LTD, GANAPAVARAM." fulfillment is being submitted by Y.VINOD KUMAR bearing Regd. No. 22471E0090 in partial of requirement for the award of the degree of **Master of Business Administration in Narasaraopeta Engineering College (Autonomous)**, affiliated to Jawaharlal Nehru Technological University, Kakinada is record of bonafide work carried out by him under our guidance and supervision.

The results presented in this thesis have been verified and are found to be satisfactory. The results embodied in this thesis have not been submitted to any other University for the award of any other degree.

Project guide

Mrs. S. S. A. M. A.
MBA. (Ph.D)
Assistant Professor

Head of the Department

Dr. P. PATTABHI RAM
MBA, M.Phil., Ph.D
Associate Professor

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NARASARAOPETA ENGINEERING COLLEGE (AUTONOMOUS),
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DEPARTMENT OF M.B.A., NARASARAOPETA-522601



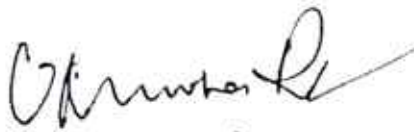
CERTIFICATE

This is to certify that the project entitled "A STUDY ON INVENTORY MANAGEMENT WITH REFERENCE TO RENUKA PRECISION PLASTICS HYDERABAD", is being submitted by YANNAM NARESH bearing Regd. No. 22471E0091 in partial fulfillment of requirement for the award of the degree of M.B.A in NARASARAOPETA ENGINEERING COLLEGE (Autonomous) affiliated to Jawaharlal Nehru Technological University Kakinada is record of Bonafide work carried out by him under our guidance and supervision from May-2023 to June-2023.

The results presented in this thesis have been verified and are found to be satisfactory. The results embodied in this is have not been submitted to another University for the award of any


Project guide
N.USHA DEEPA SUNDARI
M.B.A.(Ph. D)
Assistant Professor

Head of the Department
Dr.P.PATTABHIRAM
M.B.A. M.Phil. ph.D.


External Examiner

2




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(AUTONOMOUS)**


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(An ISO Certified Institution & Accredited by NAAC
with 'A+' Grade) Narasaraopeta-522601





CERTIFICATE

This is to certify that the project entitled "A STUDY ON RECRUITMENT AND SELECTION WITH REFERENCE TO "MADDI LAKSHMAIAH & CO. PVT LTD, GANAPAVARAM" is being submitted by Mr. SHAIK KARIMULLA bearing Regd. No.22471E0092 in partial fulfillment to requirement for the award of the degree of M.B.A in NARASARAOPETA ENGINEERING COLLEGE, Jawaharlal Nehru Technological University Kakinada in record of bonafide work carried out by him under our guidance and supervision from Decembere - 2023 to April - 2024.

The results presented in this thesis have been verified and are found to be satisfactory. The results embodied in this thesis have not been submitted to any other University for the award of any other degree.


Project Guide
N. Usha Deepa Sundari,
M.B.A.(Ph.D)
Assistant Professor


Head of the Department
Dr.P.Pattabhi Ram,
M.B.A,M.Phil,Ph.D
Professor



External Examiner



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NARASARAOPETA ENGINEERING COLLEGE
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Guntur (Dist), A.P.



CERTIFICATE

This is to certify that the project entitled "A STUDY ON EMPLOYEE MOTIVATION" IN SANGAM MILK PRODUCERS COMPANY LTD VADLAMUDI, GUNTUR-522213", is being submitted by **SK. KARISHMA** bearing Regd. No. 22471E0093 in partial fulfillment of requirement for the award of the degree of M.B.A in **NARASARAOPETA ENGINEERING COLLEGE**, Jawaharlal Nehru Technological University Kakinada is record of Bonafede work carried out by her under our guidance and supervision from 24/07/2023 to 2/09/2023. The results presented in this report have been verified and are found to be satisfactory. The results embodied in this record have not been submitted to any other University for the award of any other degree.


N. USHA DEEPA SUNDARI
MBA.(Ph.D.)
Project Supervisor
Assistant Professor, MBA


Dr. P. PATTABHI RAM
M.B.A., M.Com., M.Phil., Ph.D.
Head of the Department


External Examiner






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NARASARAOPET - 522 601,
Guntur (Dist.), A.P.

CERTIFICATE

This is to certify that the project entitled "A STUDY ON PERFORMANCE APPRISAL WITH REFERENCE TO VALLABHIA FEEDS PVT.LTD, NARASARAOPET", is being submitted by **O. CHANDANA** bearing Regd. No. 22471E0094 in partial fulfillment of requirement for the award of the degree of M.B.A in **NARASARAOPETA ENGINEERING COLLEGE**, Jawaharlal Nehru Technological University Kakinada is record of bonafide work carried out by her under our guidance and supervision from 24/07/2023 to 2/09/2023.

The results presented in this report have been verified and are found to be satisfactory. The results embodied in this record have not been submitted to any other University for the award of any other degree.


Project guide
N. Usha Deepa
Sundari
M.B.A. (Ph.D)
Assistant Professor


Head of the Department
Dr.P. PATTABHI RAM
MBAM.Phil., Ph.D.


External Examiner


IQAC


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N.B.A.NAAC and ISO 9001:2008 Certified)

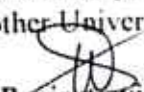
DEPARTMENT OF M.B.A., NARASARAOPETA - 522601




CERTIFICATE

This is to certify that the project entitled "(FRAUD CONTROL ACTIVITY IN PARTICULAR WITH PERSONAL LOANS – FULERTON INDIA CREDIT COMPANY LTD.)" fulfillment is being submitted by **CH.KUMAR VARMA** bearing Regd. No. 22471E0095 in partial of requirement for the award of the degree of M.B.A in NARASARAOPETA ENGINEERING COLLEGE(Autonomous), affiliated to Jawaharlal Nehru Technological University Kakinada is record of bonafide work carried out by her under our guidance and supervision .


The results presented in this thesis have been verified and are found to be satisfactory. The results embodied in this thesis have not been submitted to any other University for the award of any other degree.


Project guide
USHA DEEPA SUNDARI
M.B.A. (Ph.d)
Assistant professor


Head of the Department
Dr. P.PATTABHI RAM
M.B.A., M.Phil., M.COM, Ph.D
PROFESSOR & HOD


EXTERNAL EXAMINER




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Guntur (Dist.), A.P.

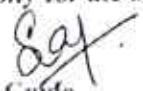
**NARASARAOPETA ENGINEERING COLLEGE
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DEPARTMENT OF M.B.A., NARASARAOPET - 522601



This is to certify that the project entitled "A STUDY ON EMPLOYEE JOB SATISFACTION WITH REFERENCE TO TATA CONSULTANCY SERVICES PVT.LTD HYDERABAD" is being submitted by Y.MUNI bearing Regd. No. 22471E0089 in partial fulfillment of requirement for the award of the degree of M.B.A in NARASARAOPETA ENGINEERING COLLEGE (Autonomous), affiliated to Jawaharlal Nehru Technological University, Kakinada is record of Bonafede work carried out by him under our guidance and supervision from JULY-2023 to September-2023.

The results presented in this thesis have been verified and are found to be satisfactory. The results embodied in this thesis have not been submitted to any other University for the award of any other degree.


Project Guide

SD.SALMA

MBA (Ph.D)

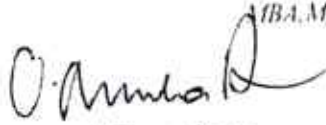
ASSISTANT PROFESSOR


Head of the Department


Dr.P.PATTABHI RAM

MBA, M.Com, M.Phil Ph.D

PROFESSOR


External Examiner




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Kakinada, Code:47 Twice Accredited by NBA & NAAC with "A" Grade, AnISO 9001:2008 Certified Institution) Phone: 08647-239916, Website:WWW.nrtengg.com,Email:nrtec_mba@yahoo.com

CERTIFICATE

This is to certify that the project entitled "A STUDY ON EMPLOYEE JOB SATISFACTION WITH REFERENCE TO DELIGHT CHEMICAL. PVT LTD PIDUGURALLA", is being submitted by T. VENKATA ARUNA KUMARI bearing Regd. No. 22471E0086 in partial fulfillment of requirement for the award of the degree of M.B.A in **NARASARAOPETA ENGINEERING COLLEGE**, Jawaharlal Nehru Technological University Kakinada is record of bonafide work carried out by her under our guidance and supervision from 24/07/2024 to 2/09/2024.


The results presented in this report have been verified and are found to be satisfactory. The results embodied in this record have not been submitted to any other University for the award of any other degree.

Project Guide


Sd. Salma MBA (Ph.D)


Assistant professor

Head of the Department


Dr. P. PATTABHI RAM
MBA M.Com. M.Phil., Ph.D.
Associate Professor & HOD


External Examiner




PRINCIPAL
NARASARAOPETA ENGINEERING COLLEGE
(AUTONOMOUS)
NARASARAOPET - 522 601
Guntur (Dist.), A.P.

CERTIFICATE

Date : 2-09- 2024

This is certify that Ms. T. Venkata Aruna kumari (Reg no: 22471E0086) MBA student of Narasaraopet engineering college at Kotappakonda road, Narasaraopet has successfully complete her academic project during the period of 24- 07-2024 to 2-09-2024 in the area of HR.



Yours truly,
For Delight Chemical(P) Ltd.,

(Signature)
(Sk.Mastan Vall)
H.R



(Signature)
PRINCIPAL

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NARASARAOPETA ENGINEERING COLLEGE(AUTONOMOUS)

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CERTIFICATE

This is to certify that the project entitled "A STUDY ON NON PERFORMING ASSET (NPA) WITH REFERENCE TO CHAITANYA GODAVARI GRAMEENA BANK GUNTUR., fulfillment is being submitted by THUPURI. LEELA MAHESWARI bearing Regd. No. 22471E0085 in partial fulfillment of requirement for the award of the degree of **Master of Business Administration in Narasaraopeta Engineering College (Autonomous)**, affiliated to Jawaharlal Nehru Technological University, Kakinada is record of bonafide work carried out by her under our guidance and supervision.


The results presented in this thesis have been verified and are found to be satisfactory. The results embodied in this thesis have not been submitted to any other University for the award of any other degree.



Project guide
SD. SALMA
M.B.A. (PH.D.)
Assistant Professor



Head of the Department
Dr. P. PATTABHI RAM
M.B.A., M.Phil., Ph.D.
Associate Professor & HOD



EXTERNAL EXAMINER



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NARASARAOPET - 522 601,
Guntur (Dist.), A.P.





CHAITANYA GODAVARI GRAMEENA BANK
(A Government undertaking sponsored by Union Bank of India)
Head Office, Raghu Mansion, 4/1, Brodipet, Guntur

September 02, 2023

The Principal
Narasaraopeta Engineering College
Narasaraopeta
Palnadu (D)

Sir

Re: Student of MBA Programme - Internship/Project Work - Completed

Ref: 1. Your letter dated 20.06.2023
2. Our Letter dated 24.07.2023

With reference to the above, we are to inform that Ms. Thupuri Leela Maheswari, MBA Student of your college, has taken up Internship/Project Work at our organization during the period 24.07.2023 to 02.09.2023 at Krishna Nagar Branch, Guntur

2. Ms. Thupuri Leela Maheswari has completed the said Internship/Project Work successfully

3. Her performance is assessed as **GOOD**

4. This letter is issued without any prejudice to the interests of the Bank and does not confer any right directly/indirectly for any type of employment after completion of this program or in future date for any place/position in the bank either on temporary or regular basis

Thanking You

Yours sincerely

Dr. B V Ramana Rao
General Manager



cc: Ms. Thupuri Leela Maheswari, Student of MBA Program, Narasaraopeta Engineering College, Narasaraopeta, Palnadu (D)




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DEPARTMENT OF M.B.A., NARASARAOPETA - 522601



This is to certify that the project entitled "A STUDY ON COMPENSATION MANAGEMENT WITH REFERENCE TO CSTS TECHNOLOGIES INC., KUKATPALLY, HYDERABAD" is being submitted by MALLENI.NAGALAKSHMI bearing Regd. No. 22471E0041 in partial fulfillment of requirement for the award of the degree of M.B.A in NARASARAOPETA ENGINEERING COLLEGE (Autonomous), affiliated to Jawaharlal Nehru Technological University, Kakinada is record of bonafide work carried out by him under our guidance and supervision from JULY-2023 to September-2023.

The results presented in this thesis have been verified and are found to be satisfactory. The results embodied in this thesis have not been submitted to any other University for the award of any other degree.


Project Guide
Dr.Y. ANKIREDDY
M.B.A, Ph.D.
ASST PROFESSOR


Head of the Department
Dr. P. PATTABHI RAM
MBA, M.Com, M.Phil. Ph.D
PROFESSOR & HOD


External Examiner




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Phone: 08647-239916, Website: WWW.nrtengg.com, Email: nrtec_mba@yahoo.com

CERTIFICATE

This is to certify that the project entitled "A STUDY OF CUSTOMER SATISFACTION WITH REFERENCE TO HINDUSTHAN COCO-COLA BEVERGES PVT LTD ATMAKURU"

is being submitted by **POTTI RAHUL** bearing **Regd. No. 22471E0052** in partial fulfillment of requirement for the award of the degree of M.B.A in NARASARAOPETA ENGINEERING COLLEGE(Autonomous), affiliated to Jawaharlal Nehru Technological University, Kakinada is a records of bonafide work carried out by him under our guidance and supervision from the results presented in this thesis have been verified and are found to be satisfactory. The results embodied in this thesis have not been submitted to any other University for the award of any other degree.

Project guide
I.SRIDHAR
M.B.A
Assistant Professor

Head of the Department
Dr.P. Pattabhi Ram
M.B.A, M.Com., M.Phil., Ph.D.
Professor

EXTERNAL EXAMINER



NARASARAOPETA ENGINEERING COLLEGE
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Twice Accredited by NBA & NAAC with "A*" Grade, an ISO9001:2008 Certified Institution)
Phone:08647-239916. Website:www.nrtengg.com,Email:nrtec_mba@yahoo.com

CERTIFICATE

This is certify that is the bonafied record of the project certificate "A STUDY ON WORKING CAPITAL MANAGEMENT WITH REFERENCE TO Y.S.R SPINNING & WEAVING MILLS PVT LTD. Ganapavaram, Chilakaluripet" by RAVELLA NAGA SILPA bearing (Reg. No:22471E0053) during 2022-2024 is done under my guidance for partial fulfillment for the award of the degree in master of business administration.

Project Guide

I.SRIVIDYA

M.B.A.,(ph.D)

Associate Professor

Head of the Department

Dr. P. PATTABHIRAM

M.B.A.,M.Phil.,ph.D.

Associate Professor

Ch. V. N. S. A.
External Examiner



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New Delhi & Permanently Affiliated to JNTU, Kakinada, Code 47Twice
Registered with "A" Grade Andhra Pradesh State Certified Institution. Phone: 08647-
279111. Website: WWW.narcegg.com, Email: narcegg@rediffmail.com

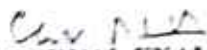
CERTIFICATE

This is to certify that the project entitled "A STUDY ON FRAUD CONTROL ACTIVITY IN RETAIL BANKING - HOME LOANS with Reference to Mitra Risk Management Services Pvt. Ltd., Hyderabad" is being submitted by Mutchagani, Bala Subramanyam bearing Regd. No. 22471EA0045 in partial full fulfillment of requirement for the award of the degree of Master of Business Administration in Narasaraopeta Engineering College (Autonomous), affiliated to Jawaharlal Nehru Technological University, Kakinada in proof of bonafide work carried out by her under our guidance and supervision from 27-07-2023 to 06-09-2023.

The results presented in this thesis have been verified and are found to be satisfactory. The results embodied in this thesis have not been submitted to any other University for the award of any other degree.


Project Guide
ISRIDHAR
M.B.A. (Phd)
Associate Professor


Head of the Department
Dr. P. PATTABHIRAM
M.B.A., M.COM., M.Phil., Ph.D.
Professor


EXTERNAL EXAMINER




PRINCIPAL
NARASARAOPETA ENGINEERING COLLEGE
(AUTONOMOUS)
NARASARAOPETA - 522 004
Guntur (Dist.), A.P.



MITRA RISK MANAGEMENT SERVICES PRIVATE LIMITED

CERTIFICATE

DATE: 06.09.2023

This is in to certify that **Mr.Mutchagani. Bala Subramanyam** (Regd.No:22471E0045) M.B.A. Student of **Narasaraopeta Engineering College**, Kotappakonda Road, Yellamanda (P), Narasaraopeta has successfully completed her academic project work during the period from **24.07.2023 to 06.09.2023** in the area of **FINANCE** on the topic of " **A STUDY ON FRAUD CONTROL ACTIVITY IN RETAIL BANKING HOME LONES WITH REFERENCE TO MITRA RISK MANAGEMENT SERVICES PVT.LTD., HYDERABAD.**

Vasuda Kumar Pollsetty
(Director)



#1-7-159/80, 2nd Floor,SRK Nager, Golconda Cross Roads,Mushceerabad, Hyderabad - 500020, Tel :040-66666808



10/9/23
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Kakinada, Code 47 Twice Accredited by NBA & NAAC with "A" Grade, An

ISO 9001:2008 Certified Institution) Phone: 08647-239916,

Website: WWW.nrtengg.com, Email: nrttec_mba@yahoo.com

CERTIFICATE

This is to certify that the project entitled "A STUDY OF EMPLOYEE JOB SATISFACTION AT RANBAXY LABORATORIES PVT.LTD, HYDERABAD" is being submitted by SAMATHAPUDI VENKATA GOPI bearing Regd. No. 22471E0054 in partial fulfillment of requirement for the award of the degree of M.B.A in NARASARAOPETA ENGINEERING COLLEGE (Autonomous), affiliated to Jawaharlal Nehru Technological University, Kakinada is record of bonafide work carried out by her under our guidance and supervision from 17-10-2023 to 20-11-2023.

The results presented in this report have been verified and are found to be satisfactory. The results embodied in this record have not been submitted to any other University for the award of any other degree.

Project Guide
I.SRIDHAR
MBA, (Ph.D.)
Associate professor

Head of the Department
DR.P. PATTABHI RAM
MBA, M.Com., M.Phil., Ph.D.
Associate professor

External Examiner



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NARASARAOPET - 522 601
Guntur (Dist), Andhra Pradesh


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(Permanently Affiliated to J.N.T.U., Kakinada, Accredited by NAAC - A, NBA, AICTE and ISO 9001:2009 Certified)
DEPARTMENT OF M.B.A., NARASARAOPET - 522601




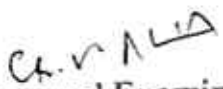
CERTIFICATE

This is to certify that the project entitled "A STUDY OF RECRUITMENT AND SELECTION AT KRISHNA DISTRICT MILK PRODUCERS MUTUALLY AIDED CO-OP UNION LTD. IN VIJAYAWADA" is being submitted by N Avani bearing Regd. No. 22471E0046 in partial fulfillment of requirement for the award of the degree of M.B.A in NARASARAOPETA ENGINEERING COLLEGE (Autonomous), affiliated to Jawaharal Nehru Technological University, Kakinada is record of Bonafide work carried out by her under our guidance and supervision from July-2023 to September-2023

The results presented in this report have been verified and are found to be satisfactory. The results embodied in this record have not been submitted to any other University for the award of any other degree.


Project Guide
I. Sridhar
M.B.A., (ph.d)
Associate Professor


Head of the Department
Dr. P. Pattabhiram
MBA, M.Phil., Ph.D.
Professor


External Examiner




PRINCIPAL
NARASARAOPETA ENGINEERING COLLEGE
(AUTONOMOUS)
NARASARAOPET - 522 601
Guntur (Dist.), A.P.



**The Krishna District
Milk Producers' Mutually Aided Co-op Union Ltd.,**



Regd. No. 22471E0046
Milk Products Factory, VIJAYAWADA - 520 009
Andhra Pradesh, India

TIN No. 28060241309
GST No. 521320210609R2RS

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Director: 148 11 11 11

CERTIFICATE

DATE: 20.09.2023

This is to certify that Nallamothu Avani (Regd.No: 22471E0046) M.B.A. Student of Narasaraopeta Engineering College, Kotappakonda Road, Yellamanda (P), Narasaraopeta has successfully completed her academic project work during the period from 24.07.2023 to 02.09.2023 in the area of **HR** on the topic of "**A STUDY ON RECRUITMENT AND SELECTION "WITH REFERENCE TO KRISHNA DISTRICT MILK PRODUCERS MUTUALLY AIDED CO-OP UNION LTD, VIJAYAWADA.**"

DIRECTOR (Finance)
The Krishna District Milk Producers
Mutually Aided Co-operative Union Ltd
Milk Products Factory,
VIJAYAWADA-520 009.

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NARASARAOPETA - 520 032
Gunter glass, A.P.

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(AUTONOMOUS)

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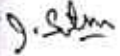
(Approved by AICTE, New Delhi & Permanently Affiliated to JNTUK, Kakinada.
Code:47 Twice Accredited by NBA & NAAC with "A" Grade, An ISO 9001:2008 Certified Institution) Phone:
No. 647-239916, Website: www.nrtengg.com, Email: nrtec_mba@yahoo.com


CERTIFICATE

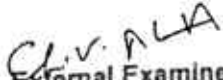
This is to certify that the project entitled "A Study on Comparison of Ratio analysis with reference to Home First Finance Company and Aadhar Housing Finance Ltd"

is being submitted by **PALLA SHIVA BHAVANI** bearing Regd. No. 22471E0047 in partial fulfillment of requirement for the award of the degree of M.B.A in **NARASARAOPETA ENGINEERING COLLEGE (Autonomous)**, affiliated to Jawaharlal Nehru Technological University, Kakinada is record of Bonafede work carried out by his under our guidance and supervision from June-2023 to July-2024.

The results presented in this report have been verified and are found to be satisfactory. The results embodied in this record have not been submitted to any other University for the award of any other degree


Project Guide
I.SRIDHAR
M.B.A., P. H.D
Associate Professor


Head of the Department
Dr. P. PATTABHI RAM
M.B.A., M.COM, M.Phil., Ph.D.
Associate Professor


External Examiner




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201, Raneja Point 1, Nr Shantis
Vihar
Bank Nehru Road, Vaidia, Santacruz (E)
Mumbai 400055 (Mah)
Tel: 022-2509900/51213400
Fax: 022-25609034

CERTIFICATE

DATE: 20.09.2023

This is to certify that **Ms. PALLA SHIVA BHAVANI (Regd.No:22471E0047) M.B.A.** Student of **Narasaraopeta Engineering College, Kotappakonda Road, Yellamanda (P), Narasaraopeta** has successfully completed her academic project work during the period from **17.07.2023 to 20.09.2023** in the area of **FINANCE** on the topic of **"A STUDY ON COMPARISON OF RATIO ANALYSIS WITH REFERENCE TO HOME FIRST FINANCE COMPANY AND AADHAR HOUSING FINANCE LTD"**



Authorized Signature

2nd Floor, No. 3, IVT Towers, 8th A Main Road, Sampangi Rama Nagar, Halson Circle, Bengaluru, Karnataka,
India 560027 | 010-4032-9999 | www.aadharhousing.com



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Guntur (Dist), A.P.

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DEPARTMENT OF M.B.A., NARASARAOPET - 522601



CERTIFICATE

This is to certify that the project entitled "A STUDY ON EVALUATION OF MUTUAL FUNDS with reference to SBI MUTUAL FUNDS, HYDERABAD. Is being submitted by pallapu mahesh bahu bearing Regd. No. 22471E0048 in partial fulfillment to requirement for the award of the degree of M.B.A in NARASARAOPETA ENGINEERING COLLEGE (Autonomous), affiliated to Jawaharlal Nehru Technological University, Kakinada is record of bonafide work carried out by him under our guidance and supervision from JULY 2023 to SEPTEMBER -2023

The results presented in this thesis have been verified and are found to be satisfactory. The results embodied in this thesis have not been submitted to any other University for the award of any other degree.

Project Guide
ISRIDHAR
MBA, PH.D.
ASSOCIATE PROFESSOR

Head of the Department
Dr. P.PATABHI RAM
MBA M.com, M.Phil., Ph.D.
PROFESSOR

External Examiner



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NARASARAOPETA - 522601
Guntur (Dist.) A.P.



Date :2/09/2023

CERTIFICATE

This is to certify that **Mr.P.CHARAN KUMAR** Reg.No:22471E0050, MBA (HR) student form NARASARAOPETA ENGINEERING COLLEGE , in NARASARAOPET KOTAPPAKONDA ROAD,PALNADU (Dist)

Has successfully completed her project work on "A STUDY ON JOB SATISFACTION WITH REFERENCE TO SEMAPHORE IT SOLUTION PVT. LTD, HYDERABAD" during the period 24/07/2023 to 02/09/2023, which

His findings and conclusions are of good use to us.

His shown keen interest in learning the concepts of the project and worked hard to wards its completion.

Semaphore It Solutions

M. Deepika
Ms. M. Deepika
HR-MANAGER

Semaphore it solutions
8-2-611/3, Road No. 11, Banjara Hills, Hyderabad -34 Ph : 040-64534888
www.semaphoreit.com hr@semaphoreit.com



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Code:47 Twice Accredited by NBA & NAAC with "A" Grade, An ISO 9001:2008 Certified Institution) Phone: 08647-239916,

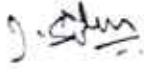
Website:www.nrtenge.com Email:nrtec_mba@yahoo.com




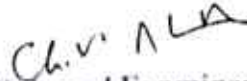
CERTIFICATE

This is to certify that the project entitled "A STUDY ON RECRUITMENT SELECTION PROCESS WITH REFERENCE TO COROMANDEL INTERNATIONAL LIMITED " fulfillment is being submitted by MENTHULA NAVEEN bearing Regd. No. 22471E0044 in partial of requirement for the award of the degree of **Master of Business Administration in Narasaraopeta Engineering College (Autonomous)**, affiliated to Jawaharlal Nehru Technological University, Kakinada is record of bonafide work carried out by her under our guidance and supervision.

The results presented in this thesis have been verified and are found to be satisfactory. The result embodied in this have not been submitted to any other University for the award of any other degree


project guides
L. SRIVIDHAR
M. B. A. (Ph.D)
Associate Professor


Head of the Department
Dr. P. PATTABHI RAM
M. B. A., M. com., M. Phil., Ph.D.
Professor & HOD


External Examiner




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Permanently Affiliated to J.T.U. Anaparthi, Accredited by AICTE for N.B.A., O.T.T and ISO 9001:2015 Certified.
DEPARTMENT OF M.B.A., NARASARAOPETA-522601



This is to certify that the project entitled "A STUDY OF CUSTOMER SATISFACTION AT SANTOSH HONDA PVT.LTD, GUNTUR" is being submitted by PATHAN GOUSE SANDHANI bearing Regd. No. 22471E/049 in partial fulfillment of requirement for the award of the degree of MBA in NARASARAOPETA ENGINEERING COLLEGE (Autonomous), affiliated to Jawaharlal Nehru Technological University, Kakinada in record of bonafide work carried out by her under our guidance and supervision from July-2022 to June-2024.

The results presented in this thesis have been verified and are found to be satisfactory. The results embodied in this thesis have not been submitted to any other University for the award of any other degree.

Project Guide
I SRIVIDYA
MBA

Assistant Professor

Head of the Department
Dr.P.PATTABHIRAM

M.B.A M.Com M.Phil, Ph.D

Professor

External Examiner



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DEPARTMENT OF M.B.A., NARASARAOPET - 522601

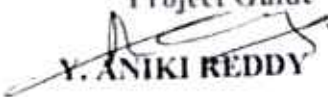


CERTIFICATE

This is to certify that the project entitled "A STUDY STRESS MANAGEMENT WITH REFERENCE TO SHRIRAM INSIGHT SHARE BROKERS LTD., HYDERABAD", is being submitted by MAHANKALLASHOK bearing Regd. No. 22471E0040 in partial fulfillment of requirement for the award of the degree of M.B.A in NARASARAOPETA ENGINEERING COLLEGE (Autonomous), affiliated to Jawaharlal Nehru Technological University Kakinada is record of bonafide work carried out by him under our guidance and supervision


The results presented in this thesis have been verified and are found to be satisfactory. The results embodied in this thesis have not been submitted to any other University for the award of any other degree.

Project Guide


Y. ANIKI REDDY

M.B.A, Ph.D.

Asst. Professor


Head of the Department

Dr.P.PATTABHI RAM

MBA., M.Com., M.Phil., Ph.D.

Professor & HOD

External Examination





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Kakinada, Code-47 Twice Accredited by NBA & NAAC with "A+" Grade,

ANISO 9001:2015 Certified Institution | Phone: (08647-239916,

Website: WWW.necetngg.com, Email: nec_etngg@yahoo.com

CERTIFICATE

This is to certify that the project entitled "A STUDY ON EMPLOYEE MOTIVATION WITH REFERENCE TO HDFC BANK, BANJARA HILLS, HYDERABAD", is being submitted by **MSASIREKHA** bearing Regd. No. 22471E0039 in partial fulfillment of requirements for the award of the degree of M.B.A in NARASARAOPETA ENGINEERING COLLEGE (Autonomous), affiliated to Jawaharlal Nehru Technological University, Kakinada is record of bonafide work carried out by his under our guidance and supervision from 24/07/2024 to 2/09/2024.

The results presented in this report have been verified and are found to be satisfactory. The results embodied in this record have not been submitted to any other University for the award of other degree.


Project Guide

Dr. Y. ANKIREDDY

M.B.A, Ph.D
Assistant Professor


Head of the Department

Dr.P.Pattabhi Ram

M.B.A, M.Phil, Ph.D
Associate Professor


External Examiner




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NARASARAOPETA - 522 901
Guntur District, A.P.



Date:02/09/2024

CERTIFICATE

This is certify that Ms. M. SASIREKHA (Reg. no: 22471E0039) M.B.A student Of Narasaraopeta Engineering College at kottappakonda road, Narasaraopeta has Undertaken project work on A STUDY ON EMPLOYEE MOTIVATION WITH REFERENCE TO HDFC BANK, BANJARA HILLS, HYDERABAD Successfully completed her academic project during the period of 24-07-24 to 02-09-24 In the area of HR.


MANAGING DIRECTOR
Mr.sashidhar jagdishan



HDFC BANK 6-3-249/5/E, #137, ANR Centre Road No:1, Banjara Hills, Hyderabad,
Telangana.

Tel:040-66003300, Fax:040-66779877




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Guntur (Dist) Andhra Pradesh

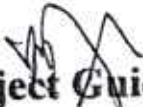
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(An ISO Certified Institution & Accredited By NAAC with A+ Grade)

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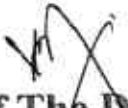
This is to certify that the project entitled "BLOCK HUNTER FEDERATED LEARNING FOR CYEBER THREAT HUNTING IN BLOCKCHAIN-BASED IIOT NETWORKS" is being submitted by Mr. A. GOVINDAIAH (22471F0001) in partial fulfillment of requirements for the award of "MASTER OF COMPUTER APPLICATIONS" degree in the Department of MCA from J.N.T.U.K, KAKINADA during the year Dec2023-April2024 under our guidance and Supervision and worth of requirements of the university.


Project Guide

Mr. Dr. K. NAGESWARARAO, Ph. D

Professor ,

Department of MCA


Head Of The Department


Mr. Dr. K. NAGESWARARAO, Ph. D

Professor,

Department of MCA


External Examiner





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This is to certify that the project entitled "HYBRID INFORMATION MIXING MODULE FOR STOCK MOVEMENT PREDICTION" is being submitted by Ms. AMIREDDY MOUNIKA (22471F0002) as a partial fulfillment of requirements for the award of "Master of Computer Applications" degree in the Department of MCA from J.N.T.U.K, KAKINADA during December-2023 to April-2024 under our guidance and supervision and worth of requirements of the university.


Project Guide
Dr. K. Nageswara Rao, Ph.D
Professor


Head of the Department
Dr. K. Nageswara Rao, Ph.D
Professor


External Examiner




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2022-2024




CERTIFICATE

This is to certify that the project entitled "IMPROVING SHOPPING MALL REVENUE BY REAL-TIME CUSTOMIZED DIGITAL COUPON ISSUANCE" is being submitted by Mr. A. NAVEEN KUMAR REDDY (22471F0003) as a partial fulfilment of requirements for the award of "Master of Computer Applications" degree in the Department of MCA from J.N.T.U.K, KAKINADA during December-2023 to April-2024 under our guidance and supervision and worth of requirements of the university.


Project Guide

Dr. K. NAGESWARA RAO, Ph.D

Professor


Head of The Department

Dr. K. NAGESWARA RAO, Ph.D

Professor



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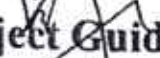


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Narasaraopeta-522601
2022-2024



This is to certify that the project entitled “ MACHINE LEARNING BASED ANALYSIS OF CRYPTOCURRENCY MARKET FINANCIAL RISK MANAGEMENT ” is being submitted by **MS. B.PAVITHRA (22471F0004)** in partial fulfillment of requirements for the award of “MASTER OF COMPUTER APPLICATIONS” degree in the Department of MCA from J.N.T.U.K, KAKINADA during the year Dec2023-Apr2024 under our guidance and Supervision and worth of requirements of the university.


Project Guide

Mr. Dr. K. NAGESWARARAO, Ph.D

Professor,
Department of MCA



Head Of The Department

Mr. Dr. K. NAGESWARARAO, Ph.D

Professor,
Department of MCA


External Examiner




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CERTIFICATE

This is to certify that the project entitled "SQL INJECTION ATTACKS DETECTION USING MACHINE LEARNING" is being submitted by Ms. BANDARUPALLI USHA SRI (22471F0005) as a Partial Fulfillment of Requirements for the Award of "Master of Computer Applications" degree in the Department of MCA from J.N.T.U.K, KAKINADA during December-2023 to April-2024 under our guidance and supervision and worth of requirements of the university.


Project Guide
r. K. Nageswara Rao, M.Tech, Ph.D.
Professor


Head of the Department
Dr. K. Nageswara Rao, M.Tech, Ph.D.
Professor


External Examiner


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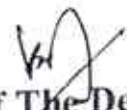
CERTIFICATE

This is to certify that the mini-project entitled **“PHISHING DETECTION SYSTEM THROUGH HYBRID MACHINE LEARNING BASED ON URL”** is being submitted by Ms. BHALE SRAVANI (22471F0006) as a partial fulfilment of requirements for the award of **“Master of Computer Applications”** degree in the **“Department of MCA”** from J.N.T.U.K, KAKINADA during December-2023 to March-2024 under our guidance and supervision and worth of requirements of the university.



Project Guide


Dr K. Nageswara Rao, M. Tech, Ph.D.

Professor


Head of The Department
Dr K. Nageswara Rao, M. Tech, Ph. D.

Professor


External Examiner


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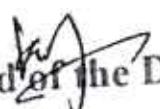
2022-2024



CERTIFICATE

This is to certify that the project entitled "EMPLOYEE ATTRITION USING MACHINE LEARNING AND DEPRESSION ANALYSIS" is being submitted by Ms. BOLISSETTY LAKSHMI PRASANNA (22471F0007) as a Partial Fulfillment of Requirements for the Award of "MASTER OF COMPUTER APPLICATIONS" Degree in the Department of MCA from J.N.T.U.K, KAKINADA during December-2023 to April-2024 under our guidance and supervision and worth of requirements of the university.


Project Guide
Dr.K. Nageswara Rao, Ph. D
Professor


Head of the Department
Dr.K. Nageswara Rao, Ph. D
Professor




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This is to certify that the project entitled "TRENDING PATTERN IDENTIFICATION OF YOUTUBE GAMING CHANNELS USING SENTIMENT ANALYSIS" is being submitted by Ms. BOMMISSETTY JYOTHI (22471F0008) as a Partial Fulfillment of Requirements for the Award of "MASTER OF COMPUTER APPLICATIONS" Degree in the Department of MCA from J.N.T.U.K, KAKINADA during December-2023 to April-2024 under our guidance and supervision and worth of requirements of the university.


Project Guide

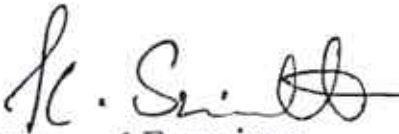
Dr.K. Nageswara Rao, Ph. D

Professor


Head of the Department

Dr.K. Nageswara Rao, M.Tech

Ph.D, Professor


External Examiner

III




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Narasaraopet-522601

2022-2024




CERTIFICATE

This is to certify that the project entitled "EMOTION BASED MUSIC RECOMMENDATIONS SYSTEM USING WEARABLE PHYSIOLOGICAL SENSORS" is being submitted by Ms. BONAGIRI KIRANMAI (22471F0009) as a Partial Fulfillment of Requirements for the Award of "MASTER OF COMPUTER APPLICATIONS" Degree in the Department of MCA from J.N.T.U.K, KAKINADA during December-2023 to April-2024 under our guidance and supervision and worth of requirements of the university.



Project Guide

Dr. K. Nageswara Rao, Ph. D
Professor


Head of the Department

Dr. K. Nageswara Rao, Ph. D
Professor




External Examiner

III


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2022-2024



CERTIFICATE

This is to certify that the project entitled "A TWO-FOLD MACHINE LEARNING APPROACH TO PREVENT AND DETECT IOT BOTNET ATTACKS" is being submitted by Mr. DONTIREDDY RAJASHEKHAR REDDY (22471F0010) as a Partial Fulfillment of Requirements for the Award of "Master Of Computer Applications" Degree in the Department of MCA from J.N.T.U.K, KAKINADA during December-2023 to April-2024 under our guidance and supervision and worth of requirements of the university.

Project Guide

**Mr.Dr.K. Nageswara Rao, Ph. D
Professor**

Head of the Department

**Mr.Dr.K. Nageswara Rao, Ph. D
Professor**



External Examiner

III

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CERTIFICATE

This is to certify that the project entitled "PREDICTING BEHAVIOR CHANGE IN STUDENTS WITH SPECIAL EDUCATION NEEDS USING MULTIMODEL LEARNING ANALYSIS" is being submitted by Mr. DUDEKULA MASTANVALI (22471F0011) as a partial fulfilment of requirements for the award of "Master of Computer Applications" degree in the Department of MCA from J.N.T.U.K, KAKINADA during December-2023 to April-2024 under our guidance and supervision and worth of requirements of the university.


Project Guide

Mr. Dr. K. NAGESWARA RAO, Ph.D

Professor


Head of The Department

Mr. Dr. K. NAGESWARA RAO, Ph.D

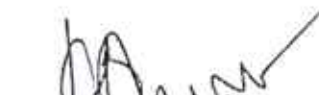
Professor


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CERTIFICATE

This is to certify that the project entitled "FFM: Flood Forecasting Model Using Federated Learning" is being submitted by Mrs. D. Lakshmi Narasamma (22471F0012) as a partial fulfillment of requirements for the award of "Master of Computer Applications" degree in the Department of MCA from J.N.T.U.K, KAKINADA during December-2023 to April-2024 under our guidance and supervision and worth of requirements of the university.


Project Guide

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Head of the Department

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External Examiner




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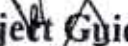
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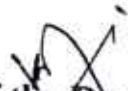
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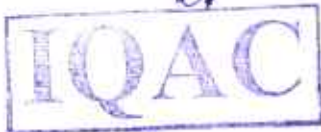
This is to certify that the project entitled "WEAPON DETECTION USING ARTIFICIAL INTELLIGENCE AND DEEP LEARNING FOR SECURITY APPLICATIONS" is being submitted by Ms. DUGGIREDDY SILPA (22471F0013) as a Partial Fulfillment of Requirements for the Award of "MASTER OF COMPUTER APPLICATIONS" Degree in the Department of MCA from J.N.T.U.K, KAKINADA during December-2023 to April-2024 under our guidance and supervision and worth of requirements of the university.


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External Examiner

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CERTIFICATE

This is to certify that the project entitled "MONKEYPOX DIAGNOSIS WITH INTERPRETABLE DEPP LEARNING" is being submitted by Ms.G.DWARAKA(22471F0014) as a partial fulfilment of requirements for the award of "Master of Computer Applications" degree in the Department of MCA from J.N.T.U.K, KAKINADA during December-2023 to April-2024 under our guidance and supervision and worth of requirements of the university.



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CERTIFICATE


This is to certify that the project entitled "PAIN RECOGNITION WITH PHYSIOLOGICAL SIGNALS USING MULTILEVEL CONTEXT INFORMATION" is being submitted by Mr. GARAPATI GOPI (22471F0015) as a Partial Fulfillment of Requirements for the Award of "MASTER OF COMPUTER APPLICATIONS" Degree in the Department of MCA from J.N.T.U.K, KAKINADA during December-2023 to April-2024 under our guidance and supervision and worth of requirements of the university.


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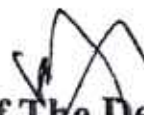
This is to certify that the project entitled **“PREDICTIVE ANALYSIS FOR BIG MART SALES USING MACHINE LEARNING ALGORITHMS”** is being submitted by **MS. G. NAVYA SRI (22471F0016)** in partial fulfillment of requirements for the award of **“MASTER OF COMPUTER APPLICATIONS”** degree in the Department of MCA from **J.N.T.U.K, KAKINADA** during the year **Dec2023-April2024** under our guidance and Supervision and worth of requirements of the university.


Project Guide

Mr. Dr. K. NAGESWARAO M. Tech,Ph.D

Professor ,

Head of Department of MCA


Head Of The Department

Mr. Dr. K. NAGESWARAO M. Tech,Ph.D

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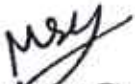
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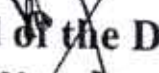
2022-2024




CERTIFICATE

This is to certify that the project entitled "PREDICTION OF AIR POLLUTION BY USING MACHINE LEARNING ALGORITHM" is being submitted by Mr. GONTU TIRUMALA SAINADH REDDY (22471F0017) as a Partial Fulfillment of Requirements for the Award of "MASTER OF COMPUTER APPLICATIONS" Degree in the Department of MCA from J.N.T.U.K, KAKINADA during December-2023 to April-2024 under our guidance and supervision and worth of requirements of the university.


Project Guide
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Asst. Professor


Head of the Department
Dr. K. Nageswara Rao, Ph. D
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CERTIFICATE

This is to certify that the project entitled "LINK PREDICTION USING INFLUENCER NODES OF A SOCIAL NETWORK" is being submitted by Ms. GOVINDAPURAM VIJETHA (22471F0018) as a Partial Fulfillment of Requirements for the Award of "MASTER OF COMPUTER APPLICATIONS" Degree in the Department of MCA from J.N.T.U.K, KAKINADA during December-2023 to April-2024 under our guidance and supervision and worth of requirements of the university.


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CERTIFICATE

This is to certify that the project entitled "FIELDPLANT: A DATASET OF FIELDPLANT IMAGES FOR PLANT DISEASE DETECTION AND CLASSIFICATION WITH DEEP LEARNING" is being submitted by Ms. GUDETI BUJJI (22471F0019) as a Partial Fulfillment of Requirements for the Award of "MASTER OF COMPUTER APPLICATIONS" Degree in the Department of MCA from J.N.T.U.K, KAKINADA during December-2023 to April-2024 under our guidance and supervision and worth of requirements of the university.

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Head of the Department

Dr. K. Nageswara Rao, Ph. D
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This is to certify that the project entitled "AUTOMATIC DETECTION OF GENETIC DISEASES IN PEDIATRIC AGE USING PUPILLOMETRY" is being submitted by MS.K. CHARISHMA (22471F0020) in partial fulfillment of requirements for the award of "MASTER OF COMPUTER APPLICATIONS" degree in the Department of MCA from J.N.T.U.K, KAKINADA during the year Dec2023-April2024 under our guidance and Supervision and worth of requirements of the university.

Project Guide

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Head Of The Department
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Department of MCA

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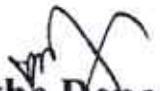


CERTIFICATE

This is to certify that the project entitled "Fake profile Identification in Social Network using Machine Learning and NLP" is being submitted by Ms. K. Swarupa (22471F0021) as a partial fulfillment of requirements for the award of "Master of Computer Applications" degree in the Department of MCA from J.N.T.U.K, KAKINADA during December-2023 to April-2024 under our guidance and supervision and worth of requirements of the university.


Project Guide

Mr. V. Mahesh Babu, M.Tech
Professor


Head of the Department
Mr. Dr. K. Nageswara Rao,
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Professor



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CERTIFICATE

This is to certify that the project entitled "FORECASTING NATIONAL LEVEL SELF HARM TRENDS WITH SOCIAL NETWORKS" is being submitted by Mr. KOMPALA SYAM (22471F0022) as a Partial Fulfillment of Requirements for the Award of "MASTER OF COMPUTER APPLICATIONS" Degree in the Department of MCA from J.N.T.U.K, KAKINADA during December-2023 to April-2024 under our guidance and supervision and worth of requirements of the university.

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Head of the Department
Dr. K. Nageswara Rao, Ph. D
Professor

External Examiner
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CERTIFICATE

This is to certify that the project entitled "prediction of loan eligibility of the customer" is being submitted by **K. SANDHYA(22471F0023)** as a partial fulfillment of requirements for the award of "Master of Computer Applications" degree in the Department of MCA from J.N.T.U.K, KAKINADA during November-2021 to April-2022 under our guidance and supervision and worth of requirements of the university.


Project Guide

Mr. V. Mahesh Babu

M.Tech, professor


Head of the Department

Mr. Dr. K. Nageswara Rao

M.Tech, PhD, Professor


External Examiner




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CERTIFICATE

This is to certify that the project entitled "USER RATINGS AND REVIEWS BASED FRAUD APP DETECTION IN GOOGLE PLAY STORE" is being submitted by Mr. MAHAMKALI LEELA SAI (22471F0024) as a partial fulfilment of requirements for the award of "Master of Computer Applications" degree in the Department of MCA from J.N.T.U.K, KAKINADA during December-2023 to April-2024 under our guidance and supervision and worth of requirements of the university.


Project Guide

Mr. V. MAHESH BABU, M.Tech

Professor


Head of The Department

Dr. K. NAGESWARA RAO, Ph.D

Professor




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2022-2024



CERTIFICATE

This is to certify that the project entitled **"PREDICTOUR: PREDICTING MOBILITY PATTERNS OF TOURISTS BASED ON SOCIAL MEDIA USER'S PROFILES"** is being submitted by **Mr. M. MANOJ KUMAR (22471F0025)** in partial fulfillment of requirements for the award of **"MASTER OF COMPUTER APPLICATIONS"** degree in the Department of MCA from J.N.T.U.K, KAKINADA during the year Dec2023-April2024 under our guidance and Supervision and worth of requirements of the university.

Project Guide

Mr. V. MAHESH BABU, M. Tech

Professor,

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Head Of The Department

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2022-2024



CERTIFICATE

This is to certify that the project entitled "MACHINE LEARNING FOR FAST AND RELIABLE SOURCE LOCATION ESTIMATION IN EARTH QUAKE EARLY WARNING" is being submitted by Ms. MITHINTI NAGA RUKMINI (22471F0026) as a Partial Fulfillment of Requirements for the Award of "MASTER OF COMPUTER APPLICATIONS" Degree in the Department of MCA from J.N.T.U.K, KAKINADA during December-2023 to April-2024 under our guidance and supervision and worth of requirements of the university.

Project Guide

**Mr.V. MAHESH BABU, M. Tech
Professor**

Head of the Department

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CERTIFICATE

This is to certify that the project entitled "CERTIFICATE VALIDATION USING BLOCKCHAIN" is being submitted by Ms. MUNDRU MANJULA (22471F0028) as a Partial Fulfillment of Requirements for the Award of "MASTER OF COMPUTER APPLICATIONS" Degree in the Department of MCA from J.N.T.U.K, KAKINADA during December-2023 to April-2024 under our guidance and supervision and worth of requirements of the university.

Project Guide

Mr. V. MAHESH BABU, M. Tech
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2022-2024



CERTIFICATE

This is to certify that the project entitled "A DEEP LEARNING ENSEMBLE WITH DATA RESAMPLING FOR CREDIT CARD FRAUD DETECTION" is being submitted by Mr. NAGANDLA GOPI KRISHNA (22471F0029) as a Partial Fulfillment of Requirements for the Award of "MASTER OF COMPUTER APPLICATIONS" Degree in the Department of MCA from J.N.T.U.K, KAKINADA during December-2023 to April-2024 under our guidance and supervision and worth of requirements of the university.

Project Guide

Mr. V. MAHESH BABU, MTech

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Head of the Department

Dr.K. Nageswara Rao, Ph. D

Professor

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2022-2024



CERTIFICATE

This is to certify that the project entitled "A HYBRID METHOD OF FEATURE EXTRACTION FOR SIGNATURES VERIFICATION USING CNN AND HOG A MULTI - CLASSIFICATION APPROACH" is being submitted by Ms. NAGANDLA SRILATHA (22471F0030) as a partial fulfilment of requirements for the award of "Master of Computer Applications" degree in the Department of MCA from J.N.T.U.K, KAKINADA during December-2023 to April-2024 under our guidance and supervision and worth of requirements of the university.


Project Guide

Mr. V. MAHESH BABU, M.Tech
Professor


Head of The Department

Dr. K. NAGESWARA RAO, Ph.D
Professor




External Examiner
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2022-2024



CERTIFICATE

This is to certify that the project entitled "MALWARE DETECTION: A FRAMEWORK FOR REVERSE ENGINEERED ANDROID APPLICATIONS THROUGH MACHINE LEARNING ALGORITHMS" is being submitted by Mr. NEKKANTI JAGADEESH (22471F0031) as a partial fulfilment of requirements for the award of "Master of Computer Applications" degree in the Department of MCA from J.N.T.U.K, KAKINADA during December-2023 to April-2024 under our guidance and supervision and worth of requirements of the university.

Project Guide

Mr. V. MAHESH BABU, M. TECH

Professor

Head of The Department

Mr. Dr. K. NAGESWARA RAO, Ph.D.

Professor

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2022-2024



CERTIFICATE

This is to certify that the project entitled "PRIVILEGE ESCALATION ATTACK DETECTION AND MITIGATION IN CLOUD USING MACHINE LEARNING" is being submitted by Mr. ONTIPULI ANKAMMA RAO (22471F0033) as a partial fulfilment of requirements for the award of "Master of Computer Applications" degree in the Department of MCA from J.N.T.U.K, KAKINADA during December-2023 to April-2024 under our guidance and supervision and worth of requirements of the university.


Project Guide

Mr. V. MAHESH BABU, M. Tech
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2022-2024



CERTIFICATE

This is to certify that the project entitled "AUTONOMOUS LANDING SCENE RECOGNITION BASED ON TRANSFER LEARNING FOR DRONES" is being submitted by Mr. PALETI KAMAL (22471F0034) as a partial fulfilment of requirements for the award of "Master of Computer Applications" degree in the Department of MCA from J.N.T.U.K, KAKINADA during December-2023 to April-2024 under our guidance and supervision and worth of requirements of the university.


Project Guide

Mr. V. MAHESH BABU, M. TECH

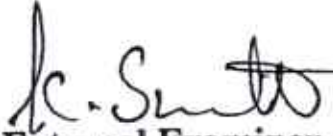
Professor


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2022-2024



CERTIFICATE

This is to certify that the project entitled "FOREST WILDFIRE DETECTION USING DEEP LEARNING" is being submitted by Ms. P.LOURDU RANI (22471F0035) as a partial fulfillment of requirements for the award of "Master of Computer Applications" degree in the Department of MCA from J.N.T.U.K, KAKINADA during December-2023 to April- 2024 under our guidance and supervision and worth of requirements of the university.


Project Guide

Mr. M. SAI YASWANTH, M. Tech
Asst.Professor


Head of the Department

Mr. Dr. K. Nageswararao, PHD
Professor


External Examiner




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CERTIFICATE

This is to certify that the project entitled "SECURE CARPOOLING SERVICES BASED ON A CONSORTIUM BLOCKCHAIN" is being submitted by Ms. PELLURI SAIDIVYA (22471F0036) as a Partial Fulfillment of Requirements for the Award of "MASTER OF COMPUTER APPLICATIONS" Degree in the Department of MCA from J.N.T.U.K, KAKINADA during December-2023 to April-2024 under our guidance and supervision and worth of requirements of the university.


Project Guide

Mr. M. Sai Yaswanth, MCA, M. Tech
Asst. Professor


Head of the Department
Dr. K. Nageswara Rao, M. Tech
Ph.D , Professor


External Examiner

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CERTIFICATE

This is to certify that the project entitled "DETECTION OF RANSOMWARE ATTACKS USING PROCESSOR AND DISK USAGE DATA" is being submitted by Mr. PERIKALA SANDEEP (22471F0037) as a Partial Fulfillment of Requirements for the Award of "MASTER OF COMPUTER APPLICATIONS" Degree in the Department of MCA from J.N.T.U.K, KAKINADA during December-2023 to April-2024 under our guidance and supervision and worth of requirements of the university.


Project Guide

**Mr. M. Sai Yaswanth, MCA, M. Tech
Asst. Professor**



Head of the Department

**Dr. K. Nageswara Rao, Ph. D
Professor**




External Examiner

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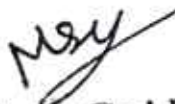
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CERTIFICATE

This is to certify that the project entitled "DETECTION OF STRESS BY MACHINE LEARNING IN IT INDUSTRY" is being submitted by Ms. POLAMREDDY VYSHNAVI (22471F0038) as a Partial Fulfillment of Requirements for the Award of "MASTER OF COMPUTER APPLICATIONS" Degree in the Department of MCA from J.N.T.U.K, KAKINADA during December-2023 to April-2024 under our guidance and supervision and worth of requirements of the university.


Project Guide
Mr. M. Sai Yaswanth, MCA, M. Tech
Asst. Professor


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CERTIFICATE

This is to certify that the project entitled "TRAFFIC RULES VIOLATION DETECTION USING DEEP LEARNING" is being submitted by Ms. PUJALA S V N L THRIVENI (22471F0039) as a Partial Fulfillment of Requirements for the Award of "MASTER OF COMPUTER APPLICATIONS" Degree in the Department of MCA from J.N.T.U.K, KAKINADA during December-2023 to April-2024 under our guidance and supervision and worth of requirements of the university.

N. Yogachandana
Project Guide

Ms. N. YOGACHANDANA, MCA
Asst. Professor

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Head of the Department
Dr.K. Nageswara Rao, M.Tech
Ph.D, Professor

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External Examiner

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CERTIFICATE

This is to certify that the project entitled "A NETWORK FOR MONITORING AND ASSESSING WATER QUALITY FOR DRINKING AND IRRIGATION PURPOSES" is being submitted by Mr. PURNI VENKATESWARLU (22471F0040) as a partial fulfilment of requirements for the award of "Master of Computer Applications" degree in the Department of MCA from J.N.T.U.K, KAKINADA during December-2023 to April-2024 under our guidance and supervision and worth of requirements of the university.

N. yogachandana.
Project Guide

Ms. N. YOGACHANDANA, MCA

Asst. Professor

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Head of The Department

Dr. K. NAGESWARA RAO, Ph.D

Professor



[Signature]
External Examiner

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CERTIFICATE

This is to certify that the project entitled "Electricity theft detection in smart grids based on deep neural network" is being submitted by Ms. S. SNOWHI (22471F0041) as a partial fulfillment of requirements for the award of "Master of Computer Applications" degree in the Department of MCA from J.N.T.U.K, KAKINADA during December-2023 to April-2024 under our guidance and supervision and worth of requirements of the university.

N. YOGACHANDANA
Project Guide

Ms. N.YOGACHANDANA, MCA.
Asst. Professor

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Head of the Department
Mr. Dr. K. Nageswara Rao,
M.Tech, Ph.D.
Professor

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External Examiner



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CERTIFICATE

This is to certify that the project entitled "FRAUD DETECTION IN BANKING DATA BY MACHINE LEARNING TECHNIQUES" is being submitted by Ms. SEGU ANUSHA (22471F0042) as a Partial Fulfillment of Requirements for the Award of "MASTER OF COMPUTER APPLICATIONS" Degree in the Department of MCA from J.N.T.U.K, KAKINADA during December-2023 to April-2024 under our guidance and supervision and worth of requirements of the university.

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Head of the Department
Dr. K. Nageswara Rao, Ph. D
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S. Lakshmi
External Examiner
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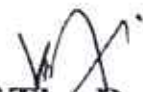
CERTIFICATE

This is to certify that the project entitled "CHILD MORTALITY PREDICTION USING MACHINE LEARNING TECHNIQUES" is being submitted by Mr. SK. BELLAMKONDA IMRAN (22471F0043) as a partial fulfilment of requirements for the award of "Master of Computer Applications" degree in the Department of MCA from J.N.T.U.K, KAKINADA during December-2023 to April-2024 under our guidance and supervision and worth of requirements of the university.


Project Guide

Mr. M. SAI YASWANTH, M.TECH

Asst. Professor


Head of The Department

Mr. Dr. K. NAGESWARA RAO, Ph.D

Professor


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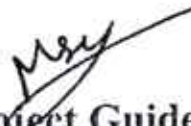
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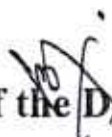


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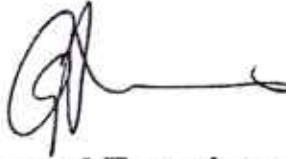
This is to certify that the project entitled "PREDICTING BRAIN AGE USING MACHINE LEARNING ALGORITHM A COMPREHENSIVE EVALUATION" is being submitted by Mr. SHAIK GHAN SAIDA (22471F0044) as a Partial Fulfillment of Requirements for the Award of "MASTER OF COMPUTER APPLICATIONS" Degree in the Department of MCA from J.N.T.U.K, KAKINADA during December-2023 to April-2024 under our guidance and supervision and worth of requirements of the university.



Project Guide

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CERTIFICATE

This is to certify that the project entitled "DEEP LEARNING BASED EFFICIENT FIREARMS MONITERING TECHNIQUE FOR BUILDING SECURE SMART CITIES" is being submitted by Mr. SHAIK KHAJAVALI (22471F0045) as a partial fulfilment of requirements for the award of "Master of Computer Applications" degree in the Department of MCA from J.N.T.U.K, KAKINADA during December-2023 to April-2024 under our guidance and supervision and worth of requirements of the university.



Project Guide


Mr. M. SAI YASWANTH, MTech
Asst. Professor


Head of The Department

Dr. K. NAGESWARA RAO, Ph.D
Professor




External Examiner


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CERTIFICATE

This is to certify that the project entitled "MODEL SELECTION OF HYBRID FUSION FOR COFFEE LEAF DISEASE CLASSIFICATION" is being submitted by Ms. Sk.RESHMA (22471F0046) as a partial fulfillment of requirements for the award of "Master of Computer Applications" degree in the Department of MCA from J.N.T.U.K, KAKINADA during December-2023 to April- 2024 under our guidance and supervision and worth of requirements of the university.


Project Guide

**Mr. M. SAI YASWANTH, M. Tech
Asst.Professor**


Head of the Department

**Dr. K. Nageswararao, PHD
Professor**


External Examiner


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CERTIFICATE

This is to certify that the project entitled "SHORT-TERM ARRIVAL DELAY TIME PREDICTION IN FREIGHT RAIL OPERATIONS USING DATA-DRIVEN MODELS" is being submitted by Mr. SHAIK RIYAZ (22471F0047) as a Partial Fulfillment of Requirements for the Award of "MASTER OF COMPUTER APPLICATIONS" Degree in the Department of MCA from J.N.T.U.K, KAKINADA during December-2023 to April-2024 under our guidance and supervision and worth of requirements of the university.

N. YOGACHANDANA
Project Guide

Ms. N. YOGACHANDANA, MCA
Asst. Professor

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Head of the Department
Dr. K. Nageswara Rao, Ph. D
Professor

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External Examiner
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CERTIFICATE

This is to certify that the project entitled "**CALORIE BURN PREDICTION USING MACHINE LEARNING**" is being submitted by **MS. SHAIK SHABANA (22471F0048)** in partial fulfillment of requirements for the award of "**MASTER OF COMPUTER APPLICATIONS**" degree in the Department of MCA from J.N.T.U.K, KAKINADA during the year Jan2023-Jun2024 under our guidance and Supervision and worth of requirements of the university.

N. yogachandana.
Project Guide

Ms. N. YOGACHANDANA, MCA,

Asst. Professor,
Department of MCA


Head Of The Department
Mrs. Dr. K. Nageswara Rao, M.CA,

M. Tech, Ph.D, Assoc. Professor,
Department of MCA


External Examiner



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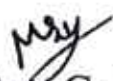
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CERTIFICATE

This is to certify that the project entitled "PROPOUNDING FIRST ARTIFICIAL INTELLIGENCE APPROACH FOR PREDICTING ROBBERY BEHAVIOR POTENTIAL IN AN INDOOR SECURITY CAMERA" is being submitted by Mr. SHAIK SUBHANI (22471F0049) as a partial fulfilment of requirements for the award of "Master of Computer Applications" degree in the Department of MCA from J.N.T.U.K, KAKINADA during December-2023 to April-2024 under our guidance and supervision and worth of requirements of the university.


Project Guide

Mr. M. SAI YASWANTH, M.Tech
Asst. Professor



Head of The Department

Dr. K. NAGESWARA RAO, Ph.D

Professor


External Examiner




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CERTIFICATE

This is to certify that the project entitled "THE INFLUENCE OF AI ON E-GOVERNANCE AND CYBERSECURITY IN SMART CITIES" is being submitted by Mr. TANNEERU ANIL (22471F0050) as a partial fulfilment of requirements for the award of "Master of Computer Applications" degree in the Department of MCA from J.N.T.U.K, KAKINADA during December-2023 to April-2024 under our guidance and supervision and worth of requirements of the university.


Project Guide

Mr. M. SAI YASWANTH, M. TECH
Professor


Head of The Department

Mr. Dr. K. NAGESWARA RAO, Ph. D
Professor



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CERTIFICATE

This is to certify that the project entitled "A TIME FREQUENCY BASED SUSPICIOUS ACTIVITY DETECTION FOR ANTI-MONEY LAUNDERING" is being submitted by Mr. T. AVINASH (22471F0051) in partial fulfillment of requirements for the award of "MASTER OF COMPUTER APPLICATIONS" degree in the Department of MCA from J.N.T.U.K, KAKINADA during the year December 2023-April 2024 under our guidance and Supervision and worth of requirements of the university.

Project Guide

Mrs. B.N.V.UDAYA LAKSHMI, MCA,

Asst. Professor,
Department of MCA

Head Of The Department

Mr. Dr. K. NAGESWARARAO, Ph.D

Professor,
Department of MCA

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CERTIFICATE

This is to certify that the project entitled "Suicidal Ideation Detection A Review of Machine Learning Methods and Applications" is being submitted by Ms. T. Bala Nandini (22471F0052) as a partial fulfillment of requirements for the award of "Master of Computer Applications" degree in the Department of MCA from J.N.T.U.K, KAKINADA during December-2023 to April-2024 under our guidance and supervision and worth of requirements of the university.


Project Guide

Mrs. B.N.V. Udaya Lakshmi, MCA
Asst. Professor


Head of the Department

Mr. Dr. K. Nageswara Rao,
M.Tech, Ph.D
Professor


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CERTIFICATE

This is to certify that the project entitled "TRANSFER LEARNING BASED LIGHTWEIGHT ESSEMBLED FOR IMBALANCED BREAST CANCER" is being submitted by Ms. THORLIKONDA LAKSHMI HARIPRIYA (22471F0053) as a Partial Fulfillment of Requirements for the Award of "MASTER OF COMPUTER APPLICATIONS" Degree in the Department of MCA from J.N.T.U.K, KAKINADA during December-2023 to April-2024 under our guidance and supervision and worth of requirements of the university.

Project Guide

Mrs. B.N.V. UDAYA LAKSHMI, MCA

Asst.Professor

Head of the Department

Dr.K. Nageswara Rao, Ph. D

Professor

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CERTIFICATE

This is to certify that the project entitled "ANALYSIS OF LEARNING BEHAVIOR CHARACTERISTICS AND PREDICTION OF LEARNING EFFECT FOR IMPROVING COLLEGE STUDENTS' INFORMATION LITERACY BASED ON MACHINE LEARNING" is being submitted by Mr. TURAKA NAVEEN (22471F0054) as a Partial Fulfillment of Requirements for the Award of "MASTER OF COMPUTER APPLICATIONS" Degree in the Department of MCA from J.N.T.U.K, KAKINADA during December-2023 to April-2024 under our guidance and supervision and worth of requirements of the university.


Project Guide

Mrs. B.N.V. UDAYA LAKSHMI, MCA

Asst.Professor


Head of the Department


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CERTIFICATE

This is to certify that the project entitled "CREATING ALERT MESSAGE BASED ON WILD ANIMAL ACTIVITY DETECTION USING HYBRID NEURAL NETWORK" is being submitted by Ms. UDATHA PAVITHRA (22471F0055) as a Partial Fulfillment of Requirements for the Award of "MASTER OF COMPUTER APPLICATIONS" Degree in the Department of MCA from J.N.T.U.K, KAKINADA during December-2023 to April-2024 under our guidance and supervision and worth of requirements of the university.

Project Guide

Mrs. B.N.V. UDAYA LAKSHMI, MCA

Asst.Professor

Head of the Department

Dr.K. Nageswara Rao, Ph. D

Professor



External Examiner

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CERTIFICATE

This is to certify that the project entitled "LUNG CANCER PREDICTION USING MACHINE LEARNING" is being submitted by Mr. UPPU CHANDU (22471F0056) as a Partial Fulfillment of Requirements for the Award of "MASTER OF COMPUTER APPLICATIONS" Degree in the Department of MCA from J.N.T.U.K, KAKINADA during December-2023 to April-2024 under our guidance and supervision and worth of requirements of the university.


Project Guide
Mrs. B.N.V. UDAYA LAKSHMI, MCA

Asst. Professor


Head of the Department
Dr. K. Nageswara Rao, Ph. D

Professor


External Examiner



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CERTIFICATE

This is to certify that the project entitled "FORENSICS ACTIVITY LOGGER TO EXTRACT USER ACTIVITY FROM MOBILE DEVICES" is being submitted by Ms. UPPU SIVADEEPIKA (22471F0057) as a Partial Fulfillment of Requirements for the Award of "MASTER OF COMPUTER APPLICATIONS" Degree in the Department of MCA from J.N.T.U.K, KAKINADA during December-2023 to April-2024 under our guidance and supervision and worth of requirements of the university.

Project Guide

Mrs. B.N.V. UDAYA LAKSHMI, MCA

Asst. Professor

Head of the Department

Dr. K. Nageswara Rao, Ph. D

Professor

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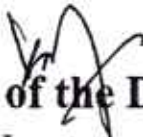


CERTIFICATE

This is to certify that the project entitled "MALFSM: FEATURE SUBSET SELECTION METHOD FOR MALWARE FAMILY CLASSIFICATION" is being submitted by Ms. VALLURI SAI PRASANNA (22471F0058) as a Partial Fulfillment of Requirements for the Award of "MASTER OF COMPUTER APPLICATIONS" Degree in the Department of MCA from J.N.T.U.K, KAKINADA during December-2023 to April-2024 under our guidance and supervision and worth of requirements of the university.



Project Guide


Mrs. B.N.V. UDAYA LAKSHMI, MCA
Asst.Professor


Head of the Department

Dr.K. Nageswara Rao, Ph. D
Professor




External Examiner


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Narasaraopet-522601

2022-2024



CERTIFICATE

This is to certify that the project entitled "DEEPSKIN A DEEP LEARNING APPROACH FOR SKIN CANCER CLASSIFICATION" is being submitted by Ms. VATTEM SIVA SINDHU (22471F0059) as a Partial Fulfillment of Requirements for the Award of "MASTER OF COMPUTER APPLICATIONS" Degree in the Department of MCA from J.N.T.U.K, KAKINADA during December-2023 to April-2024 under our guidance and supervision and worth of requirements of the university.

Project Guide

Mrs. B.N.V. UDAYA LAKSHMI, MCA

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Head of the Department

Dr.K. Nageswara Rao, Ph. D

Professor

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External Examiner

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Narasaraopet-522601

2022-2024



CERTIFICATE

This is to certify that the project entitled "DETECTION OF DEEPFAKE VIDEOS USING LONG DISTANCE ATTENTION" is being submitted by Mr. VELPULA ASWANI MARUTHI (22471F0060) as a Partial Fulfillment of Requirements for the Award of "MASTER OF COMPUTER APPLICATIONS" Degree in the Department of MCA from J.N.T.U.K, KAKINADA during December-2023 to April-2024 under our guidance and supervision and worth of requirements of the university.


Project Guide

Mrs. B.N.V. UDAYA LAKSHMI, MCA

Asst. Professor


Head of the Department

Dr. K. Nageswara Rao, Ph. D

Professor




External Examiner

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Narasaraopet-522601

2022-2024



CERTIFICATE

This is to certify that the project entitled "AN EXPERT SYSTEM FOR INSULIN DOSAGE PREDICTION" is being submitted by Ms. YAMPATI THRIVENI (22471F0061) as a Partial Fulfillment of Requirements for the Award of "MASTER OF COMPUTER APPLICATIONS" Degree in the Department of MCA from J.N.T.U.K, KAKINADA during December-2023 to April-2024 under our guidance and supervision and worth of requirements of the university.

Project Guide

Mrs. B.N.V. UDAYA LAKSHMI, MCA

Asst. Professor

Head of the Department

Mr. Dr. K. Nageswara Rao, Ph. D

Professor

External Examiner

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Narasaraopet-522601

2022-2024



CERTIFICATE

This is to certify that the project entitled "AI BASED FAQ CHATBOT WITH VOICE ASSISTANCE" is being submitted by Mr. YEMINENI RAVI TEJA (22471F0062) as a Partial Fulfillment of Requirements for the Award of "MASTER OF COMPUTER APPLICATIONS" Degree in the Department of MCA from J.N.T.U.K, KAKINADA during December-2023 to April-2024 under our guidance and supervision and worth of requirements of the university.


Project Guide

Mrs. B.N.V. UDAYA LAKSHMI, MCA

Asst.Professor


Head of the Department

Dr.K. Nageswara Rao, Ph. D

Professor


External Examiner

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Narasaraopet-522601

2022-2024



CERTIFICATE

This is to certify that the project entitled "DETECTION OF CYBERBULLYING ON SOCIAL MEDIA USING MACHINE LEARNING" is being submitted by Ms. YEMINENI SIREESHA (22471F0063) as a Partial Fulfillment of Requirements for the Award of "MASTER OF COMPUTER APPLICATIONS" Degree in the Department of MCA from J.N.T.U.K, KAKINADA during December-2023 to April-2024 under our guidance and supervision and worth of requirements of the university.


Project Guide

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Asst.Professor


Head of the Department

Dr.K. Nageswara Rao, Ph. D

Professor


External Examiner

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Narasaraopet-522601

2022-2024



CERTIFICATE

This is to certify that the project entitled "BLOCKCHAIN BASED MANAGEMENT FOR ORGAN DONATION AND TRANSPLANTATION" is being submitted by Mr. BOMMA SOMA SATYA DEEPAK (22471F0064) as a Partial Fulfillment of Requirements for the Award of "MASTER OF COMPUTER APPLICATIONS" Degree in the Department of MCA from J.N.T.U.K, KAKINADA during December-2023 to April-2024 under our guidance and supervision and worth of requirements of the university.

Project Guide

Mrs. B.N.V. UDAYA LAKSHMI, MCA

Asst.Professor

Head of the Department

Dr.K. Nageswara Rao, Ph. D

Professor

External Examiner

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Narasaraopet-522601**

2022-2024



CERTIFICATE

This is to certify that the project entitled "PROPOSAL OF SVM UTILITY KERNEL FOR BREAST CANCER SURVIVAL ESTIMATION" is being submitted by Ms. SHAIK. APSANA (22471F0065) as a partial fulfillment of requirements for the award of "Master of Computer Applications" degree in the Department of MCA from J.N.T.U.K, KAKINADA during December-2023 to April-2024 under our guidance and supervision and worth of requirements of the university.


Project Guide

**Mr. M. SAI YASWANTH, M. Tech
Asst. Professor**


Head of the Department

**Mr. Dr. K. Nageswararao, PHD
Professor**




External Examiner


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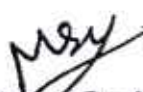
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2022-2024

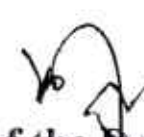


CERTIFICATE

This is to certify that the project entitled "DEEP TRANSFER LEARNING BASED PARKINSON'S DISEASE DETECTION USING OPTIMIZED FEATURE SELECTION" is being submitted by Mr. KUNDETI ANIL KUMAR (22471F0066) as a Partial Fulfillment of Requirements for the Award of "MASTER OF COMPUTER APPLICATIONS" Degree in the Department of MCA from J.N.T.U.K, KAKINADA during December-2023 to April-2024 under our guidance and supervision and worth of requirements of the university.


Project Guide

Mr. M. Sai Yaswanth, MCA, M. Tech
Asst.Professor


Head of the Department

Dr.K. Nageswara Rao, Ph. D
Professor


External Examiner

III

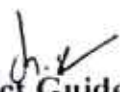



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NARASARAOPET - 522 601
Guntur (Dist.), A.P.

CERTIFICATE


This is to certify that a major project entitled "DEVELOPING OF MATERIAL SEGREGATION SYSTEM BY USING PLC" is being submitted by Mr. K. Gopi (20471A0320), Mr. K. Dhanunjayreddy (20471A0317), Mr. K. Prasanth (20471A0313), Mr. P. Srikanth (20471A0332), Mr. Sk. Naguvali (20471A0342), in partial fulfillment for the award of B. Tech in Mechanical engineering to the Jawaharlal Nehru Technological University- Kakinada, Kakinada is a record of bonafide work carried out by him/her under our guidance.

The results embodied in this book have not been submitted to any other University or Institute for the award of any degree or diploma.


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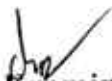
CH. SEKHAR, MTech

ASSOCIATE PROFESSOR


Head of the Department

Dr. B. Venkata Siva,

MTech, Ph.D, FIE(I), MISTE, INT, ASME


Internal Examiner


External Examiner

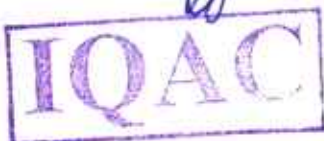

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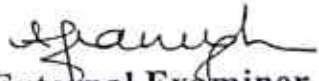
CERTIFICATE


This is to certify that the mini project entitled "IoT BASED VEHICLE ACCIDENT ALERTING SYSTEM" is the Bonafede work carried out by Mr. Sd. Sardar (21475A0302), Mr.N.Vikas (21475A0309), Mr. R. Pavan Naik (21475A0308), Mr. Ch. Venkatramaiah (21475A0328) and Mr. M. Narasimha (20471A0368), under our supervision and guidance in partial fulfillment of the requirements for the award of the degree Bachelor of Technology in Mechanical Engineering, from JNTUK, Kakinada, Andhra Pradesh, during the year 2023-2024.


Project Guide
Dr. B. Venkata Siva
M.Tech, Ph.D, FIE(I), MISTE, ISNT, ASME
Professor & HOD


Head of the Department
Dr. B. Venkata Siva
M.Tech, Ph.D, FIE(I), MISTE, ISNT, ASME
Professor & HOD


Internal Examiner

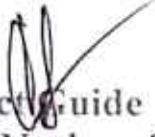

External Examiner



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Professor & HOD


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Dr. B. Venkata Siva
M.Tech,Ph.D,FIE(I),MISTE,ISNT,ASME
Professor & HOD


Internal Examiner


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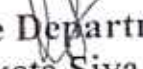

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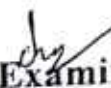


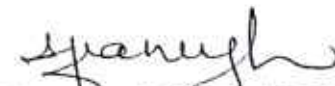
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Professor & HOD


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Professor & HOD


Internal Examiner

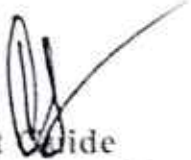

External Examiner




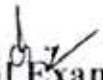

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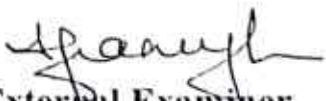
CERTIFICATE

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Project Guide
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M.Tech, Ph.D, FIE(I), MISTE, ISNT, ASME
Professor & HOD


Head of the Department
Dr. B. Venkata Siva
M.Tech, Ph.D, FIE(I), MISTE, ISNT, ASME
Professor & HOD


Internal Examiner


External Examiner




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Guntur (Dist.), A.P.

CERTIFICATE

This is certified that the project entitled for "3D PRINTING OF WALKING GEAR MECHANISM" is being submitted by Mr. BAANANA PRADEEP KUMAR (21475A0322), Mr. BORUGADDA NITHIN (21475A0325), Mr. VARIKUTI KARTHIK VENKATA RAM (21475A0326), Mr. REPALLE YASHWANTH (21475A0307), Mr. PARELLA BALA GURAVIAIAH (20471A0370), in the partial fulfilment for the award of B. Tech in Mechanical Engineering to the Jawaharlal Nehrutechnological university-Kakinada, Kakinada is a record of bonfire work carried out by them under our Guidance. The results embodied in this thesis have not been submitted to any other University or Institute for the award of any degree or diploma.



Project Guide

Mr. A. ANKA RAO MTech.
Assistant Professor

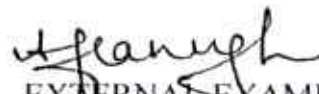


Head of the department

Dr. B. VENKATA SIVA MTech, Ph. D, FIE(I), MISTE, ASME
Professor & HOD



INTERNAL EXAMINER.



EXTERNAL EXAMINER.



IQAC



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NARASARAOPETA - 522 601
Guntur (Dist.), A.P.

CERTIFICATE

This is to certify that a major project entitled "CAR PARKING MANAGEMENT CONTROLLED BY PLC SOFTWARE" is being submitted by Mr. SASI KUMAR (20471A0318), Mr. P. PURNA CHANDRA RAO (20471A0337), Mr. SHAIK. SADHIK (20471A0350), Mr. K. PAVAN KUMAR (20471A0314), Mr. K. NAVEEN KUMAR (20471A0321), in partial fulfilment for the award of B. Tech in MECHANICAL ENGINEERING to the Narasaraopet Engineering College (Autonomous), Narasaraopet, is record of Bonafide work carried out by them under our guidance and supervision.

The results embodied in this book have not been submitted to any other University or Institute for the award of any degree or diploma.


Project Guide

Dr. M. SREENIVASA KUMAR
M. Tech, Ph.D. (UK), MISTE, FIE(I)
PRINCIPAL


Head of the Department

Dr. B. VENKATA SIVA,
MTech, Ph.D. FIE (I), MISTE, ASME, ISNT
Professor & HOD

Internal Examiner




External Examiner


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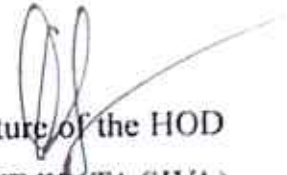
CERTIFICATE

This is to certify that the Project entitled "ANALYSIS OF ULTRASONIC TESTING ON HOT ROLLED MILD STEEL PLATE" is being submitted by Mr. SK. PARVEZ (20471A0349), Mr. N. RAKESH (20471A0329), Mr. D. PARDHU GANESH (20471A0307), Mr. R. BADDU NAIK (20471A0339) & Mr. V. GANESH (20471A0353) in partial fulfilment for the award of B. Tech in Mechanical Engineering to the Jawaharlal Nehru Technological University Kakinada, is a record of bonafied work carried out by them under our guidance and supervision.

The results embodied in this thesis have not been submitted to any other University or Institute for the award of any degree or diploma.




Signature of the Guide
(Dr. P. SURESH BABU)



Signature of the HOD
(Dr. B. VENKATA SIVA)



Internal Examiner



External Examiner



PRINCIPAL
NARASARAOPETA ENGINEERING COLLEGE
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NARASARAOPET - 522 601.
Guntur (Dist.), A.P.

CERTIFICATE

This is to certify that the Project entitled "DESIGN AND FABRICATION OF FOLDABLE MOBILITY SCOOTER" is being submitted by Mr. P. Krishna Chaithanya (20471A0333) Mr. D. Veeranjireddy (20471A0306) Mr. E. Mohan Sai (20471A0309), Mr. G. Sai Payam (20471A0310) Mr. A. Sai Srinivas (20471A0330) in partial fulfillment for the award of B.Tech in Mechanical engineering to the Jawaharlal Nehru Technological University Kakinada, Kakinada is a record of bonafide work carried out by him/her under our guidance.

The results embodied in this these have not been submitted to any other University or Institute for the award of any degree or diploma


Project Guide

Dr. M. Venkanna Babu
M.E., Ph.D, MISTE
Associate Professor


Head of the Department

Dr. B. Venkata Siva
M.Tech, Ph.D, FIE(I), MISTE, ISNT
Professor & HOD

Internal Examiner

External Examiner

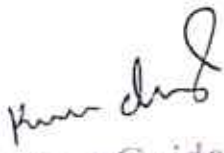



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NARASARAOPETA - 522 601,
Guntur (Dist.), A.P.

CERTIFICATE

This is to certify that a major project entitled "AUTOMATIC HVAC SYSTEM SCREEN DEVELOPMENT USING SCADA" is being submitted by Ms. SHAIK MANISHA (20471A0348), Mr. VEERAGANDHAM. MANIKANTA (20471A0354), Mr. D. AMARNATH (20471A0352), Mr. SHAIK SUBHANI (20471A0341), Mr. SHAIK FAREED (20471A0346), Mr. SHAIK MEERAVALLI (20471A0336), in partial fulfilment for the award of B. Tech in MECHANICAL ENGINEERING to the Narasaraopet Engineering College (Autonomous), Narasaraopet, is record of Bonafide work carried out by them under our guidance and supervision.

The results embodied in this book have not been submitted to any other University or Institute for the award of any degree or diploma.



Project Guide

Mr. K. KIRAN CHAND, M. Tech

Assistant Professor



Head of the Department

Dr. B. VENKATA SIVA,
M.Tech, Ph.D. FIE (I), MISTE, ASME
Professor & HOD



Internal Examiner

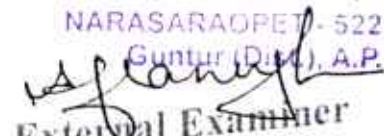


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External Examiner

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Project Guide

Dr. M. Venkanna Babu
M.E , PhD,MISTE
Associate Professor



Head of the Department

Dr. B. Venkata Siva
M.Tech,Ph.D,FIE(I),MISTE,ISNT
Professor & HOD

Internal Examiner



External Examiner



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NARASARAOPETA ENGINEERING COLLEGE
(AUTONOMOUS)
NARASARAOPETA - 522 601.
Guntur (Dist.), A.P.

CERTIFICATE


This is to certify that this project entitled on "DESIGN AND ANALYSIS OF CAR BUMPER BY USING FINITE ELEMENT ANALYSIS" being submitted by D.Venkata Pradeep (21475A0316), P. Sai kiran Yadav(21475A0301), D. Gopi Krishna (21475A0303),S. Mabu Subhani (21475A0315),G. Hanuma koti Ganesh (20471A0364), B. Sai Ganesh(20471A0359). In partial fulfilment for the award of B. Tech in Mechanical Engineering to the Jawaharlal Nehru Technological University-Kakinada, Kakinada is a record of bonafide work carried out by him/her under our guidance.

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Project Guide

Mr..A Pavan Kumar, M.Tech

Asst. Professor


Head of the Department


Dr. B. Venkata Siva M.Tech, Ph.D, FIIM, MISTE, ISNT, ASME

Professor & HOD


Internal Examiner


External Examiner

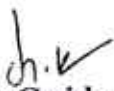



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CERTIFICATE

This is to certify that a major project entitled "DEVELOPING OF MATERIAL SEGREGATION SYSTEM BY USING PLC" is being submitted by Mr. K. Gopi (20471A0320), Mr. K. Dhanunjayreddy (20471A0317), Mr. K. Prasanth (20471A0313), Mr. P. Srikanth (20471A0332), Mr. Sk. Naguvali (20471A0342), in partial fulfillment for the award of B. Tech in Mechanical engineering to the Jawaharlal Nehru Technological University- Kakinada, Kakinada is a record of bonafide work carried out by him/her under our guidance.

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CH. SEKHAR, MTech
ASSOCIATE PROFESSOR

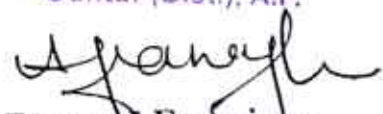

Head of the Department

Dr. B. Venkata Siva,
MTech, Ph.D. FIE(I), MISTE, INT, ASME




Internal Examiner


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External Examiner

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M. Venkaiah

Project Guide

Mr. M. VENKAIAH, M. Tech.
Assistant Professor



Head of the Department

Dr. B. VENKATA SIVA,
M.Tech, Ph.D., FIE (I), MISTE, ASME,
PROFFESOR and HOD



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INTERNAL EXAMINER



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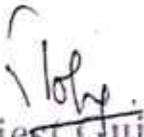
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EXTERNAL EXAMINER

CERTIFICATE

This is to certify that this project entitled on "DESIGN AND ANALYSIS OF MARINE PROPELLER SHAFT BY USING FINITE ELEMENT ANALYSIS" being submitted by J. Prasad (21475A0306), M. Naga Thirumala Rao (20471A0369), D. Joseph (21475A0310), E. Leela Shankar (21475a0334), A. Pavan Kumar (20471a0357), T. Sri Vamsi Nadh (20471A0375). In partial fulfilment for the award of B. Tech in Mechanical Engineering to the Jawaharlal Nehru Technological University-Kakinada, Kakinada is a record of bonafide work carried out by him/her under our guidance.

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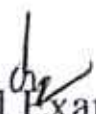
K. John Babu, M.Tech

Asst. Professor


Head of the Department


Dr. B. Venkata Siva M.Tech, Ph.D, FIE(I), MISTE, JSN

Professor & HOD


Internal Examiner


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Guntur (Dist.), A.P.

CERTIFICATE

This is to certify that this project entitled on "DESIGN AND FABRICATION OF DEXTERITY OF A HUMAN HAND BY USING 3D PRINTING" is a record Bonafide work of MORAPAKULA CHARAN TEJA (21475A0312), BANDI SRINIVAS (21475A0332), SHAIK GUTHIKONDA SALIM (20471A0372), SHAIK ADIL (21475A0305), KUPPALA SRINU (21475A0335), and MUNIKOLA SANTHOSH KUMAR (21475A0311). In partial fulfilment for the award of B. Tech in Mechanical Engineering to the Jawaharlal Nehru Technological University-Kakinada, Kakinada is a record of bonafide work carried out by him/her under our guidance. The results embodied in this book have not been submitted to any other University or Institute for the award of any degree or diploma.



Dr. M Venkanna Babu
ME., Ph.D., MISTE


Associate Professor

Head of the Department

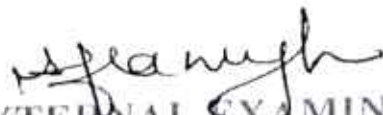


Dr. B. Venkata Siva
M.Tech., Ph.D., FIE(I), MISTE, ISNT, ASME


Professor & HOD



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EXTERNAL EXAMINER



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CERTIFICATE

This is certified that the project entitled for "DESIGN AND FABRICATION OF 3D PRINTED PLANE TURBINE MECHANISM" is being submitted by Mr. N. NAVEEN (21475A0318), Mr. K. JITHENDRA SINGH (21475A0329), Mr. G. SANDEEP (21475A0313), Mr. U. NAGASURENDRA CHARI (21475A0317), Mr. Y. SAI KIRAN REDDY (20471A0376), in the partial fulfilment for the award of B. Tech in Mechanical Engineering to the Jawaharlal Nehru technological university-Kakinada, Kakinada is a record of bonfire work carried out by them under our Guidance.

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Project Guide

T. Ashok Kumar M.Tech
Assistant Professor


Head of the department

Dr. B. Venkata Siva M.Tech, Ph. D, FIE(I), MISTE, ISNT
Professor & HOD




INTERNAL EXAMINER.


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Assistant Professor

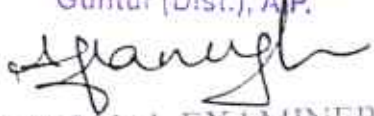





Head of the department

Dr. B. Venkata Siva M.Tech, Ph. D, FIE(I), MISTE, ISNT
Professor & HOD



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CERTIFICATE

This is to certify that a major project entitled "AUTOMATIC COLOUR CODE SENSING MACHINE CONTROLLED BY PLC" is being submitted by Mr. A. Gopi Raju (20471A0356), Mr. P. Chandu Harsha Vardhan(20471A0334), Mr. M. Sambasiva Rao(20471A0326), Mr. P. John Hosanna(20471A0331), Mr.Sk. Lal Abamad Basha (20471A0345), in partial fulfillment for the award of B. Tech in Mechanical engineering to the Jawaharlal Nehru Technological University- Kakinada, Kakinada is a record of bonafide work carried out by him/her under our guidance.

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Dr. B. Venkata Siva,
M.TECH, Ph.D., FIE(I), MISTE, ISNT

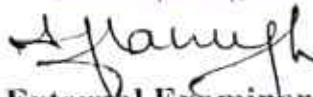

Head of the Department

Dr. B. Venkata Siva
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External Examiner

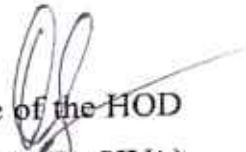
CERTIFICATE

This is to certify that the Project entitled "ANALYSIS OF ULTRASONIC TESTING ON HOT ROLLED MILD STEEL PLATE" is being submitted by Mr. D. PARDHU GANESH (20471A0307), Mr. SK. PARVEZ (20471A0349), Mr. N. RAKESH (20471A0329), Mr. R. BADDU NAIK (20471A0339) & Mr. V. GANESH (20471A0353) in partial fulfilment for the award of B. Tech in Mechanical Engineering to the Jawaharlal Nehru Technological University Kakinada, is a record of bonafied work carried out by them under our guidance and supervision.


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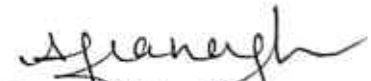
Signature of the Guide
(Dr. P. SURESH BABU)



Signature of the HOD
(Dr. B. VENKATA SIVA)



Internal Examiner



External Examiner



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M. Venkaiah

Project Guide

Mr. M. VENKAIAH, M. Tech.
Assistant Professor

[Signature]
Head of the Department

Dr. B. VENKATA SIVA,
M.Tech, Ph.D., FIE (I), MISTE, ASME,
PROFFESOR and HOD

[Signature]
IQAC

[Signature]
INTERNAL EXAMINER

[Signature]
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NARASARAOPET - 522 601.
Guntur (Dist.), A.P.

[Signature]
EXTERNAL EXAMINER

CERTIFICATE

This is certified that the project entitled for "FABRICATION OF STAMPING MECHANISM" is being submitted by Mr.NELLURI YASWANTH(21475A0320), Mr.CH.SAI NITHIN (20471A0361),Mr.G.SIVAGANESH(21475A0333), Mr.P.PAVAN KUMAR(21475A0321),Mr. SK. MOHAMMAD TAHEER (20471A0374), in the partial fulfilment for the award of B. Tech in Mechanical Engineering to the Jawaharlal Nehru technological university-Kakinada, Kakinada is a record of bonfire work carried out by them under our Guidance. The results embodied in this thesis have not been submitted to any other University or Institute for the award of any degree or diploma.



Project Guide
Mrs.D.RAGHAVENDRA MTech
Assistant Professor



Head of the department
Dr.B. VENKATA SIYA MTech, Ph. D, FIE(I), MISTE, ASME
Professor & HOD



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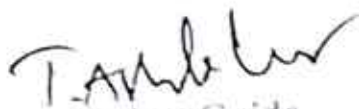
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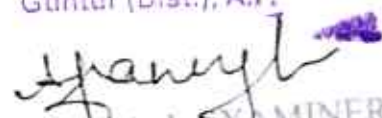
T. Ashok Kumar M.Tech
Assistant Professor



Head of the Department

Dr. B. Venkata Siva M.Tech, Ph. D, FIE(I), MISTE, ISNT
Professor & HOD




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EXTERNAL EXAMINER


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Project Guide

Dr. D. Jagadish

M. Tech, Ph.D

Professor



Head Of the Department

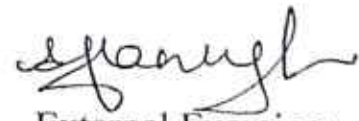
Dr. B. Venkata Siva

M. Tech, Ph.D.,FIE(I),MISTE,ASME

Professor & HOD



Internal Examiner



External Examiner




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Project Guide

Dr. M Venkanna Babu
ME, Ph.D., MISTE

Associate Professor



Head of the Department

Dr. B. Venkata Siva
M.Tech., Ph.D., FIE (I), MINTY, ISVT, ASME

Professor & HOD



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M.Venkai

Project Guide

Mr. M. VENKAIAH, M. Tech.

Assistant Professor


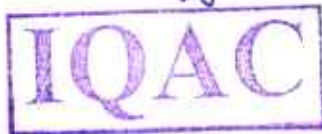


Head of the Department

Dr. B.VENKATA SIVA,

M.Tech, Ph.D., FIE (I), MISTE, ASME.

PROFFESOR and HOD

INTERNAL EXAMINER



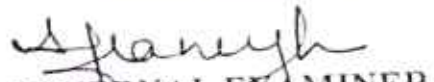
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Project Guide

Dr. D. Jagadish

M. Tech, Ph.D

Professor



Head Of the Department

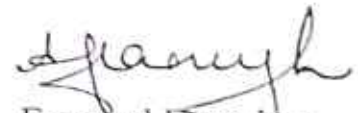
Dr. B. Venkata Siva

M. Tech, Ph.D., FIE(I), MISTE, ASME

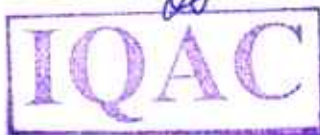
Professor & HOD



Internal Examiner



External Examiner



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Professor




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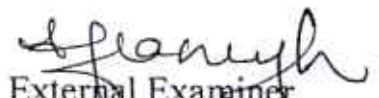
Dr. B. Venkata Siva

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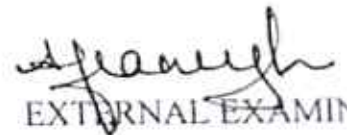
Project Guide
Mrs.D.RAGHAVENDRA M.Tech
Assistant Professor



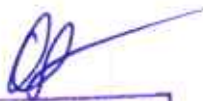
Head of the department
Dr.B. VENKATA SIVA M.Tech, Ph. D, FIE(I), MISTE,ASME
Professor & HOD



INTERNAL EXAMINER



EXTERNAL EXAMINER



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NARASARAOPETA ENGINEERING COLLEGE
(AUTONOMOUS)
NARASARAOPETA - 522 601,
Guntur (Dist.), A.P.

CERTIFICATE

This is certified that the project entitled for "FABRICATION OF STAMPING MECHANISM" is being submitted by Mr.NELLURI YASWANTH(21475A0320), Mr.CH.SAI NITHIN (20471A0361),Mr.G.SIVAGANESH(21475A0333), Mr.P.PAVAN KUMAR(21475A0321),Mr. SK. MOHAMMAD TAHEER (20471A0374), in the partial fulfilment for the award of B. Tech in Mechanical Engineering to the Jawaharlal Nehru technological university-Kakinada, Kakinada is a record of bonfire work carried out by them under our Guidance. The results embodied in this thesis have not been submitted to any other University or Institute for the award of any degree or diploma.



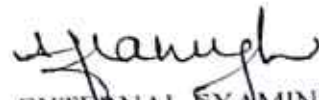
Project Guide
Mrs.D.RAGHAVENDRA MTech
Assistant Professor



Head of the department
Dr.B. VENKATA SIVA MTech, Ph. D, FIE(I), MISTE, ASME
Professor & HOD



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CERTIFICATE

This is to certify that the Project entitled "DESIGN AND FABRICATION OF MULTI-MODE ROBOTIC CAR" is being submitted by Mr. Bommali Bala Siva Yogendra Sai Nandu (21475A0330), Mr. Maddineni Ajay (20471A0367), Mr. Orchu Venkata Ravindra (21475A0319), Mr. Gangula Sunny (20471A0363), Mr. Mogili Prakash (21475A0314) in partial fulfillment for the award of B.Tech in Mechanical Engineering to the Jawaharlal Nehru Technological University Kakinada, Kakinada is a record of bonafide work carried out by him/her under our guidance.

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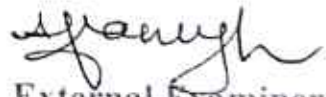

Project Guide

CH. SEK HAR, M.Tech
Asst. Professor


Head of the Department

Dr. B. Venkata Siva M.Tech, Ph.D, FIE(I), MISTE, ISNT
Professor & HOD


Internal Examiner

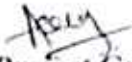

External Examiner




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(AUTONOMOUS)
NARASARAOPET - 522 601,
Guntur (Dist.), A.P.

CERTIFICATE

This is certified that the project entitled for "3D PRINTING OF WALKING GEAR MECHANISM" is being submitted by Mr. BAANANA PRADEEP KUMAR (21475A0322), Mr. BORUGADDA NITHIN (21475A0325), Mr. VARIKUTI KARTHIK VENKATA RAM (21475A0326), Mr. REPALLE YASHWANTH (21475A0307), Mr. PARELLA BALA GURAVIAH (20471A0370), in the partial fulfilment for the award of B. Tech in Mechanical Engineering to the Jawaharlal Nehru technological university-Kakinada, Kakinada is a record of bonfire work carried out by them under our Guidance. The results embodied in this thesis have not been submitted to any other University or Institute for the award of any degree or diploma.



Project Guide

Mr. A. ANKA RAO M.Tech
Assistant Professor



Head of the Department

Dr. B. VENKATA SIVA M.Tech, Ph. D, FIE(I), MISTE, ASME
Professor & HOD



INTERNAL EXAMINER.



EXTERNAL EXAMINER.



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NARASARAOPETA - 522 601.
Guntur (Dist.), A.P.

CERTIFICATE

This is to certify that this project entitled on "DESIGN AND FABRICATION OF LINEAR ACTUATOR BY USING 3D PRINTER "is the Bonafide work of Mr.M.SASHANK (20471A0327),Mr N.ABHI RAM CHOWDARY.(20471A0328), Mr.M.JOSEPHVINAYKUMAR(20471A0323),Mr.D.S.S.NAGARAVITEJA(20471A0308),Mr.J.PRAKASH (20471A0304).In partial fulfillment for the award of B.Tech in MECHANICAL ENGEERING to the Narasaraopeta Engineering College (Autonomous), Narasaraopet, is a record of Bonafide work carried out by him/her under our guidance and supervision.

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M. Venkai

Project Guide

Mr. M. VENKAIAH, M. Tech,
Assistant Professor

B. Venkata Siva

Head of the Department

Dr. B.VENKATA SIVA,
M.Tech, Ph.D., FIE (I), MISTE, ASME,
PROFFESOR and HOD

J. Venkatesh
INTERNAL EXAMINER



S. Ganesh
EXTERNAL EXAMINER

S. Ganesh

PRINCIPAL
NARASARAOPETA ENGINEERING COLLEGE
(AUTONOMOUS)
NARASARAOPET - 522 601,
Guntur (Dist.), A.P.

CERTIFICATE

This is certified that the project entitled for "DESIGN AND FABRICATION OF 3D PRINTED PLANE TURBINE MECHANISM" is being submitted by Mr. N. NAVITEN (21475A0315), Mr. K. HITHENDRA SINGH (21475A0329), Mr. G. SANDEEP (21475A0343), Mr. U. NAGASURENDRA CHARI (21475A0377), Mr. Y. SAI KIRAN REDDY (20471A0376), in the partial fulfilment for the award of B. Tech in Mechanical Engineering to the Jawaharlal Nehru technological university-Kakinada, Kakinada is a record of bonfire work carried out by them under our Guidance.

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Project Guide

T. Ashok Kumar M.Tech.
Assistant Professor



Head of the department

Dr. B. Venkata Siva M.Tech, Ph. D, FIIT(I), MISTE, ISNT
Professor & HOD


INTERNAL EXAMINER.


IQAC


EXTERNAL EXAMINER.


PRINCIPAL
NARASARAOPETA ENGINEERING COLLEGE
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NARASARAOPET - 522 601,
Guntur (Dist.), A.P.

CERTIFICATE

This is to certify that this project entitled on "DESIGN AND FABRICATION OF DEXTERITY OF A HUMAN HAND BY USING 3D PRINTING" is a record Bonafide work of MORAPAKULA CHARAN TEJA (21475A0312), BANDI SRINIVAS (21475A0332), SHAIK GUTHIKONDA SALIM (20471A0372), SHAIK ADIL (21475A0305), KUPPALA SRINU (21475A0335), and MUNIKOLA SANTHOSH KUMAR (21475A0311). In partial fulfilment for the award of B. Tech in Mechanical Engineering to the Jawaharlal Nehru Technological University-Kakinada, Kakinada is a record of bonafide work carried out by him/her under our guidance. The results embodied in this book have not been submitted to any other University or Institute for the award of any degree or diploma.



Dr. M Venkanna Babu
ME, Ph.D, MISTE

Associate Professor



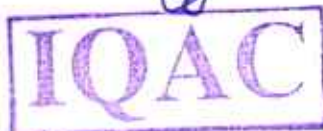
Head of the Department

Dr. B. Venkata Siva
M.Tech, Ph.D, IIT (I), MISTE, ISNT, ASSM


Professor & HOD



INTERNAL EXAMINER



EXTERNAL EXAMINER



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Project Guide

Dr. M Venkanna Babu
M.Tech, Ph.D. MRCET

Associate Professor



Head of the Department

Dr. B. Venkata Siva
M.Tech, Ph.D. MRCET, MRCET UNIT - KANAK

Professor & HOD



INTERNAL EXAMINER



EXTERNAL EXAMINER




A green handwritten signature.

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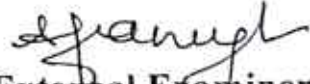
CERTIFICATE

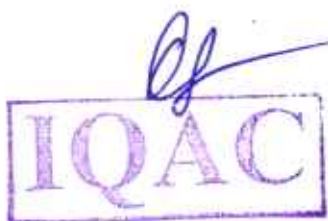
This is to certify that the mini project entitled "IoT BASED VEHICLE ACCIDENT ALERTING SYSTEM" is the Bonafede work carried out by Mr. Sd. Sardar (21475A0302), Mr.N.Vikas (21475A0309), Mr. R. Pavan Naik (21475A0308), Mr. Ch. Venkatramaiah (21475A0328) and Mr. M. Narasimha (20471A0368), under our supervision and guidance in partial fulfillment of the requirements for the award of the degree Bachelor of Technology in Mechanical Engineering, from JNTUK, Kakinada, Andhra Pradesh, during the year 2023-2024.


Project Guide
Dr. B. Venkata Siva
M.Tech,Ph.D,FIE(I),MISTE,ISNT,ASME
Professor & HOD


Head of the Department
Dr. B. Venkata Siva
M.Tech,Ph.D,FIE(I),MISTE,ISNT,ASME
Professor & HOD


Internal Examiner


External Examiner




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(AUTONOMOUS)
NARASARAOPET - 522 601,
Guntur (Dist.), A.P.

CERTIFICATE

This is to certify that this project entitled on "DESIGN AND ANALYSIS OF MARINE PROPELLER SHAFT BY USING FINITE ELEMENT ANALYSIS" being submitted by J. Prasad (21475A0306), M. Naga Thirumala Rao (20471A0369), D. Joseph (21475A0310), E. Leela Shankar (21475A0334), A. Pavan Kumar (20471A0357), T. Sri Vamsi Nadh (20471A0375). In partial fulfilment for the award of B. Tech in Mechanical Engineering to the Jawaharlal Nehru Technological University-Kakinada, Kakinada is a record of bonafide work carried out by him/her under our guidance.

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Project Guide

K. John Babu, M.Tech

Asst. Professor



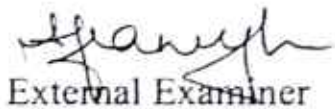
Head of the Department

Dr. B. Venkata Siva M.Tech, Ph.D., FIE(I), MISTE, ISNT, ASME

Professor & HOD



Internal Examiner



External Examiner



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NARASARAOPETA ENGINEERING COLLEGE
(AUTONOMOUS)
NARASARAOPETA - 522 401,
Guntur (Dist.), A.P.

CERTIFICATE

This is to certify that this project entitled on "DESIGN AND ANALYSIS OF CAR BUMPER BY USING FINITE ELEMENT ANALYSIS" being submitted by D.Venkata Pradeep (21475A0316), P. Sai kiran Yadav(21475A0301), D. Gopi Krishna (21475A0303), S. Mahu Subhani (21475A0315), G. Hanuma koti Ganesh (20471A0364), B. Sai Ganesh(20471A0359). In partial fulfilment for the award of B. Tech in Mechanical Engineering to the Jawaharlal Nehru Technological University-Kakinada, Kakinada is a record of bonafide work carried out by him/her under our guidance.

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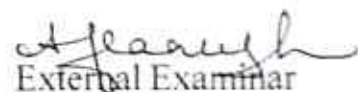
Project Guide
Mr. A. Pavan Kumar, M.Tech
Asst. Professor



Head of the Department
Dr. B. Venkata Siva M.Tech, Ph.D., FEI, IAS, IAS, IAS, IAS, IAS
Professor & HOD



Internal Examiner



External Examiner



IQAC



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NARASARAOPETA ENGINEERING COLLEGE
(AUTONOMOUS)
NARASARAOPETA - 522 601
Guntur (Dist.), A.P.

CERTIFICATE

This is to certify that a major project entitled "CAR PARKING MANAGEMENT CONTROLLED BY PLC SOFTWARE" is being submitted by Mr. SASI KUMAR (20471A0318), Mr. P. PURNA CHANDRA RAO (20471A0337), Mr. SHAIK. SADHIK (20471A0350), Mr. K. PAVAN KUMAR (20471A0314), Mr. K. NAVEEN KUMAR (20471A0321), in partial fulfilment for the award of B. Tech in MECHANICAL ENGINEERING to the Narasaraopet Engineering College (Autonomous), Narasaraopet, is record of Bonafide work carried out by them under our guidance and supervision.

The results embodied in this book have not been submitted to any other University or Institute for the award of any degree or diploma.



Project Guide

Dr. M. SREENIVASA KUMAR
M. Tech, Ph.D. (UK), MISTE, FIE(I)
PRINCIPAL



Head of the Department

Dr. B. VENKATA SIVA,
M.Tech, Ph.D. FIE (I), MISTE, ASME, ISNT
Professor & HOD



Internal Examiner



External Examiner



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NARASARAOPET - 522 601
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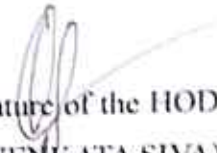
CERTIFICATE

This is to certify that the Project entitled "ANALYSIS OF ULTRASONIC TESTING ON HOT ROLLED MILD STEEL PLATE" is being submitted by Mr. SK. PARVEZ (20471A0349), Mr. N. RAKESH (20471A0329), Mr. D. PARDHU GANESH (20471A0307), Mr. R. BADDU NAIK (20471A0339) & Mr. V. GANESH (20471A0353) in partial fulfillment for the award of B. Tech in Mechanical Engineering to the Jawaharlal Nehru Technological University Kakinada, is a record of bonafied work carried out by them under our guidance and supervision.

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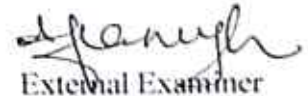
Signature of the Guide
(Dr. P. SURESH BABU)



Signature of the HOD
(Dr. B. VENKATA SIVA)



Internal Examiner



External Examiner



PRINCIPAL
NARASARAOPETA ENGINEERING COLLEGE
(AUTONOMOUS)
NARASARAOPET - 522 601
Guntur (Dist.), A.P.

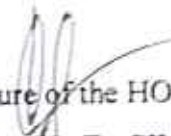
CERTIFICATE

This is to certify that the Project entitled "DEFECT DETECTION ON WELDED JOINTS USING ULTRASONIC TESTING" is being submitted by Mr. P. D. BHARATH CHANDAN (20471A0338), Mr. B. RAJESH (20471A0302), Mr. B. HEMANTH KUMAR (20471A0303), Mr. A. ADITHYA VARA PRASAD (20471A0301), Mr. M. SASI PAVAN (20471A0325) in partial fulfillment for the award of B. Tech in MECHANICAL ENGINEERING to the Jawaharlal Nehru Technological University Kakinada, is a record of bonafied work carried out by them under our guidance and supervision.

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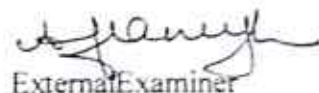
Signature of the Guide
(Dr. D. SUNEEL)



Signature of the HOD
(Dr. B. VENKATA SIVA)



Internal Examiner



External Examiner



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NARASARAOPETA ENGINEERING COLLEGE
(AUTONOMOUS)
NARASARAOPET - 522 601,
Guntur (Dist.), A.P.

CERTIFICATE

This is to certify that this project entitled on "DESIGN AND ANALYSIS OF MACHINE PROPELLER SHAFT BY USING FINITE ELEMENT ANALYSIS" being submitted by J. Prasad (2147540306), M. Vaga, Thirumala Rao (2147540309), D. Jeevan (2147540310), E. Leela Shankar (2147540334), A. Pavan Kumar (2147540337), T. Sri Venkata Prath (2147540375) in partial fulfillment for the award of B. Tech in Mechanical Engineering at the Jawaharlal Nehru Technological University-Kakinada, Kakinada in a record of bonafide work carried out by him/her under our guidance.

The results embodied in this book have not been submitted to any other University or Institute for the award of any degree or diploma.

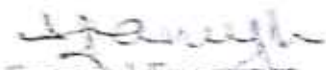

Project Guide

K. John Babu, M.Tech
Asst. Professor


Head of the Department

Dr. B. Venkata Siva, M.Tech, Ph.D., IAS, IIT Madras
Professor & HOD


Internal Examiner


External Examiner




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NARASARAOPETA ENGINEERING COLLEGE
(AUTONOMOUS)
NARASARAOPET - 522 601,
Guntur (Dist.), A.P.

CERTIFICATE


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Project Guide


Mr. A Pavan Kumar, M.Tech

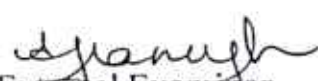
Asst. Professor

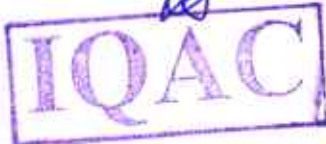

Head of the Department

Dr. B. Venkata Siva M.Tech, Ph.D., IITD, MISTU, ISIT, ASME

Professor & HOD


Internal Examiner


External Examiner




PRINCIPAL
NARASARAOPETA ENGINEERING COLLEGE
(AUTONOMOUS)
NARASARAOPETA - 522 601
Guntur (Dist.), A.P.

CERTIFICATE

This is certified that the project entitled for "FABRICATION OF STAMPING MECHANISM" is being submitted by Mr.NELLURI YASWANTH(21475A0320), Mr.CH.SAI NITHIN (20471A0361),Mr.G.SIVAGANESH(21475A0333), Mr.P.PAVAN KUMAR(21475A0321),Mr. SK. MOHAMMAD TAHEER (20471A0374), in the partial fulfilment for the award of B. Tech in Mechanical Engineering to the Jawaharlal Nehrutechnological university-Kakinada, Kakinada is a record of bonfire work carried out by them under our Guidance. The results embodied in this thesis have not been submitted to any other University or Institute for the award of any degree or diploma.



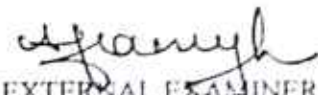
Project Guide
Mrs.D.RAGHAVENDRA M.Tech.
Assistant Professor



Head of the department
Dr.B. VENKATA SIVA M.Tech, Ph. D, FIE(I), MISTE, ASME
Professor & HOD



INTERNAL EXAMINER



EXTERNAL EXAMINER




PRINCIPAL
NARASARAOPETA ENGINEERING COLLEGE
(AUTONOMOUS)
NARASARAOPETA - 522 204
Guntur (Dist.), A.P.

CERTIFICATE

This is to certify that the Project entitled "DESIGN AND FABRICATION OF MULTI-MODE ROBOTIC CAR" is being submitted by Mr. Bommali Bala Siva Yogendra Sai Nandu (21475A0330), Mr. Maddineni Ajay (20471A0367), Mr. Orchu Venkata Ravindra (21475A0319), Mr. Gangula Sunny (20471A0363), Mr. Mogili Prakash (21475A0314) in partial fulfillment for the award of B.Tech in Mechanical Engineering to the Jawaharlal Nehru Technological University Kakinada, Kakinada is a record of bonafide work carried out by him/her under our guidance.

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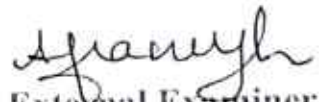

Project Guide

CH. SEKHAR, M.Tech
Asst. Professor


Head of the Department

Dr. B. Venkata Siva M.Tech (I.I.T. CHENNAI), MISTU, ISNT
Professor & HOD


Internal Examiner


External Examiner





PRINCIPAL
NARASARAO PETA ENGINEERING COLLEGE
(AUTONOMOUS)
NARASARAO PET - 522 601,
Guntur (Dist.), A.P.

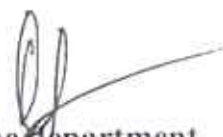
CERTIFICATE

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

Project Guide

T. Ashok Kumar M.Tech
Assistant Professor



Head of the Department

Dr. B. Venkata Siva M.Tech, Ph. D, FIE(I), MISTE, ISNT
Professor & HOD



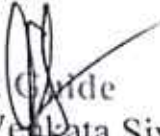

INTERNAL EXAMINER.


EXTERNAL EXAMINER.


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NARASARAOPETA ENGINEERING COLLEGE
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NARASARAOPETA - 522 601.
Guntur (Dist.), A.P.

CERTIFICATE

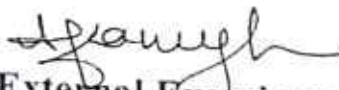
This is to certify that the mini project entitled "IoT BASED VEHICLE ACCIDENT ALERTING SYSTEM" is the Bonafede work carried out by Mr. Sd. Sardar (21475A0302), Mr.N.Vikas (21475A0309), Mr. R. Pavan Naik (21475A0308), Mr. Ch. Venkatramaiah (21475A0328) and Mr. M. Narasimha (20471A0368), under our supervision and guidance in partial fulfillment of the requirements for the award of the degree Bachelor of Technology in Mechanical Engineering, from JNTUK, Kakinada, Andhra Pradesh, during the year 2023-2024.


Project Guide
Dr. B. Venkata Siva
M.Tech, Ph.D, FIE(I), MISTE, JSNT, ASME
Professor & HOD


Head of the Department
Dr. B. Venkata Siva
M.Tech, Ph.D, FIE(I), MISTE, JSNT, ASME
Professor & HOD


Internal Examiner




External Examiner



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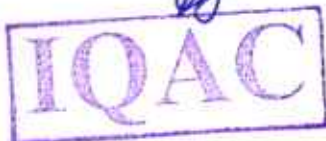
This is to certify that the project entitled is "COMPARATIVE STUDY OF S1223RTL AIRFOIL WITH NACA 0012 AIRFOIL." is being submitted by Mr. GOLLA. SUNDARA SAMRAJYA SUGNAN (21475A0327), Mr. CHIENAMSETTY. GOPI (20471A062), Mr. GUTTIKONDA. AYYAPPA REDDY (20471A0366), Mr. SHAIK. JAKIR (20471A0373), Mr. BERAM. NARENRA REDDY (20471A0360) in partial fulfilment for the award of B. Tech in **Mechanical Engineering** to the Jawaharlal Nehru technological university-Kakinada is a record of bonafied work carried out by him/her under our guidance.

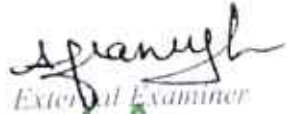
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Project Guide
P. SRINIVASA RAO M. TECH
Assistant professor


Head of The Department
Dr. B. VENKATA SIVA
M.Tech, Ph.D., FIE (I), MISTE, ASME
PROFESSOR & HOD


Internal Examiner





External Examiner


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Guntur (Dist.), A.P.

CERTIFICATE

This is certified that the project entitled for "3D PRINTING OF WALKING GEAR MECHANISM" is being submitted by Mr. BAANANA PRADEEP KUMAR (21475A0322), Mr. BORUGADDA NITHIN (21475A0325), Mr. VARIKUTI KARTHIK VENKATA RAM (21475A0326), Mr. REPALLE YASHWANTH (21475A0307), Mr. PARELLA BALA GURAVAI AH (20471A0370), in the partial fulfilment for the award of B. Tech in Mechanical Engineering to the Jawaharal Nehru technological university-Kakinada. Kakinada is a record of bonfire work carried out by them under our Guidance. The results embodied in this thesis have not been submitted to any other University or Institute for the award of any degree or diploma.



Project Guide

Mr. A. ANKA RAO M.Tech.
Assistant Professor

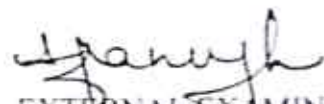


Head of the Department

Dr. B. VENKATA SIVA M.Tech, Ph. D, FIE(I), MISTE, ASME
Professor & HOD



INTERNAL EXAMINER.



EXTERNAL EXAMINER.



IQAC



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Guntur (Dist.), A.P.


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This is to certify that this project entitled on "DESIGN AND FABRICATION OF DEXTERITY OF A HUMAN HAND BY USING 3D PRINTING" is a record Bonafide work of MORAPAKULA CHARAN TEJA (21475A0312), BANDI SRINIVAS (21475A0332), SHAIK GUTHKONDA SALIM (20471A0372), SHAIK ADIL (21475A0305), KUPPALA SRINU (21475A0335), and MUNIKOLA SANTHOSH KUMAR (21475A0311). In partial fulfilment for the award of B. Tech in Mechanical Engineering to the Jawaharlal Nehru Technological University-Kakinada, Kakinada is a record of bonafide work carried out by him/her under our guidance. The results embodied in this book have not been submitted to any other University or Institute for the award of any degree or diploma.


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Dr. M Venkanna Babu
ME., P.D., M.D.E.

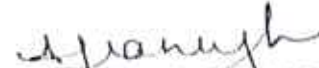
Associate Professor


Head of the Department

Dr. B. Venkata Siva
M.D.E.C., P.D., U.P.G., M.D.E., P.S.G., A.S.M.E.

Professor & HOD


INTERNAL EXAMINER


EXTERNAL EXAMINER



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CERTIFICATE

This is to certify that the Project entitled " ANALYSIS OF WING LOCATION ON AERODYNAMIC PERFORMANCE OF AIRPLANE " is being submitted by Mr. B.DEMUDU BABU (21475A0323), Mr. D.CHANDU (21475A0324), Mr. R.SAI (21475A0331), Mr. B.RAMANJANEYULU (20471A0358), Mr. S.RANENDRA VAMSHI (20471A0371) in partial fulfilment for the award of B. Tech in MECHANICAL ENGINEERING to the Jawaharlal Nehru Technological University Kakinada, is a record of bonafied work carried out by them under our guidance and supervision.

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Project Guide

Dr. D. Jagadish

M Tech, Ph.D.

Professor



Head Of the Department

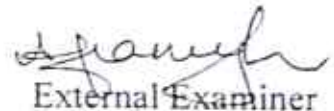
Dr. B. Venkata Siva

M Tech, Ph.D, FIE(I),MSTE,ASME

Professor & HOD



Internal Examiner



External Examiner



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Guntur (Dist.), A.P.

CERTIFICATE

This is to certify that a major project entitled "AUTOMATIC HVAC SYSTEM SCREEN DEVELOPMENT USING SCADA" is being submitted by Ms. SHAIK MANISHA (20471A0348), Mr. VEERAGANDHAM. MANIKANTA (20471A0354), Mr. D. AMARNATH (20471A0352), Mr. SHAIK SUBHANT (20471A0341), Mr. SHAIK FAREED (20471A0346), Mr. SHAIK MEERAVALLI (20471A0336), in partial fulfilment for the award of B. Tech in MECHANICAL ENGINEERING to the Narasaraopet Engineering College (Autonomous), Narasaraopet, is record of Bonafide work carried out by them under our guidance and supervision.

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Project Guide

Mr. K. KIRAN CHAND, M Tech
Assistant Professor


Head of the Department

Dr. B. VENKATA SIVA,
MTech, Ph.D. FIE (I), MISTE, ASME
Professor & HOD


Internal Examiner


External Examiner



CERTIFICATE

This is to certify that this project entitled on "DESIGN AND FABRICATION OF LINEAR ACTUATOR BY USING 3D PRINTER" is the Bonafide work of Mr.M.SASHANK (20471A0327), Mr N.ABHI RAM CHOWDARY.(20471A0328), Mr.M.JOSEPHVINAYKUMAR(20471A0323), Mr.D.S.S.NAGARAVITEJA(20471A0308), Mr.J.PRAKASH (20471A0304). In partial fulfillment for the award of B.Tech in MECHANICAL ENGINEERING to the Narasaraopeta Engineering College (Autonomous), Narasaraopet, is a record of Bonafide work carried out by him/her under our guidance and supervision.

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M.Venkai

Project Guide

Mr. M. VENKAIAH, M.Tech.
Assistant Professor

[Signature]
Head of the Department

Dr. B.VENKATA SIVA,
M.Tech, Ph.D., FIE (I), MISTE, ASME,
PROFFESOR and HOD



[Signature]
INTERNAL EXAMINER

[Signature]
EXTERNAL EXAMINER

[Signature]

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(AUTONOMOUS)
NARASARAOPET - 522 601,
Guntur (Dist.), A.P.

CERTIFICATE


This is to certify that the Project entitled "DESIGN AND FABRICATION OF FOLDABLE MOBILITY SCOOTER" is being submitted by Mr. P. Krishna Chaithanya (20471A0333) Mr. D. Veeranjireddy (20471A0306) Mr. E.Mohan Sai (20471A0309), Mr.G. Sai Pavan (20471A0310) Mr. A. Sai Srinivas (20471A0330) in partial fulfillment for the award of B.Tech in Mechanical engineering to the Jawaharlal Nehru Technological University Kakinada, Kakinada is a record of bonafide work carried out by him/her under our guidance.

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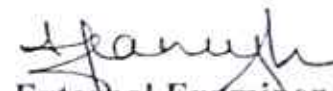
Dr. M. Venkanna Babu
M.E., Ph.D, MISTE
Associate Professor



Head of the Department
Dr. B. Venkata Siva
M.Tech, Ph.D, FIE(I), MISTE, ISNT
Professor & HOD



Internal Examiner



External Examiner



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Guntur (Dist.), A.P.

CERTIFICATE

This is to certify that a major project entitled "AUTOMATIC COLOUR CODE SENSING MACHINE CONTROLLED BY PLC" is being submitted by Mr. A. Gopi Raju (20471A0356), Mr. P. Chandu Harsha Vardhan(20471A0334), Mr. M. Sambusiva Rao(20471A0326), Mr. P. John Hosanna(20471A0331), Mr.Sk. Lal Abamad Basha (20471A0345), in partial fulfillment for the award of B. Tech in Mechanical engineering to the Jawaharlal Nehru Technological University- Kakinada, Kakinada in a record of bonafide work carried out by him/her under our guidance.

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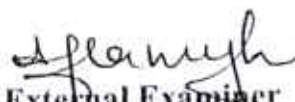

Project Guide

Dr. B. Venkata Siva,
M.TECH, Ph.D., FIE(I), MISTE, ISNT


Head of the Department

Dr. B. Venkata Siva
M.TECH, Ph.D., FIE(I), MISTE, ISNT


Internal Examiner


External Examiner




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Guntur (Dist.), A.P.


CERTIFICATE

This is to certify that a major project entitled "DEVELOPING OF MATERIAL SEGREGATION SYSTEM BY USING PLC" is being submitted by Mr. K. Gopi (20471A0320), Mr. K. Dhanunjayreddy (20471A0317), Mr. K. Prasanth (20471A0313), Mr. P. Srikanth (20471A0332), Mr. Sk. Naguvali (20471A0342), in partial fulfillment for the award of B. Tech in Mechanical engineering to the Jawaharlal Nehru Technological University- Kakinada, Kakinada is a record of bonafide work carried out by him/her under our guidance.

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Project Guide

CH. SEKHAR, M.Tech
ASSOCIATE PROFESSOR


Head of the Department

Dr. B. Venkata Siva,
M.Tech, Ph.D. FIE(I), MISTE, INT, ASME




Internal Examiner


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Guntur (Dist.), A.P.

External Examiner

CERTIFICATE


This is to certify that the Major Project entitled "LEAKAGE DETECTION BY USING PLC IN OIL AND GAS INDUSTRIES" is being submitted by Mr.K.MAHESWAR (20471A0315), G.KOTESWARRAO (20471A0312), SK.GANGARAM ABDUL RAHAMAN (20471A0343), M.RAMAKRISHNA (20471A0324), B.PAVAN KUMAR (20471A0305) in partial fulfillment for the award of B. Tech in Mechanical engineering to the Jawaharlal Nehru Technological University- Kakinada, Kakinada is a record of bonafide work carried out by him/her under our guidance.

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Project Guide

P. SRAVANI, MTech
ASSOCIATE PROFESSOR

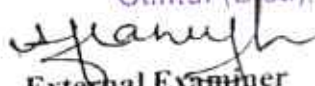



Internal Examiner


Head of the Department

Dr. B. Venkata Siva,
M.Tech, Ph.D., FIE (I), MISTE, ASME, ISNT


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Guntur (Dist.), A.P.


External Examiner

CERTIFICATE

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Project Guide

Mr. K. KIRAN CHAND, M. Tech

Assistant Professor

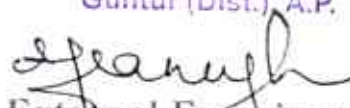

Head of the Department

Dr. B. VENKATA SIVA,
M.Tech, Ph.D., FIE (I), MISTE, ASME
Professor & HOD



Internal Examiner


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External Examiner

CERTIFICATE

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M.Venkai

Project Guide

Mr. M. VENKAIAH, M. Tech.

Assistant Professor



Head of the Department

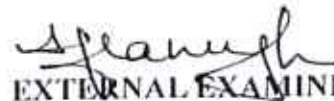
Dr. B.VENKATA SIVA,

M.Tech, Ph.D., FIE (I), MISTE, ASME,

PROFFESOR and HOD



INTERNAL EXAMINER



EXTERNAL EXAMINER



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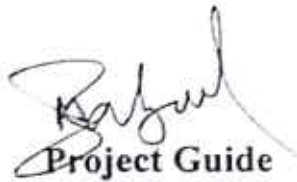
NARASARAOPET - 522 001.

Guntur (Dist.), A.P.

CERTIFICATE


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Project Guide

Dr. M. Venkanna Babu
M.E., Ph.D., MISTE
Associate Professor



Head of the Department
Dr. B. Venkata Siva
M.Tech., Ph.D., FIET, MISTE, ISNT
Professor & HOD



Internal Examiner



External Examiner



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Guntur (Dist.), A.P.

CERTIFICATE

This is to certify that a major project entitled "AUTOMATIC COLOUR CODE SENSING MACHINE CONTROLLED BY PLC" is being submitted by Mr. A. Gopi Raju (20471A0356), Mr. P. Chandu Harsha Vardhan(20471A0334), Mr. M. Sambasiva Rao(20471A0326), Mr. P. John Hosanna(20471A0331), Mr. Sk. Lal Ahamad Basha (20471A0345), in partial fulfillment for the award of B. Tech in Mechanical engineering to the Jawaharlal Nehru Technological University- Kakinada, Kakinada is a record of bonafide work carried out by him/her under our guidance.


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Project Guide

Dr. B. Venkata Siva,
M.TECH, Ph.D., FIE(I), MISTE, ISNT


Head of the Department

Dr. B. Venkata Siva
M.TECH, Ph.D., FIE(I), MISTE, ISNT


Internal Examiner




External Examiner


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Guntur (Dist.), A.P.

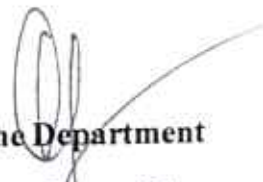
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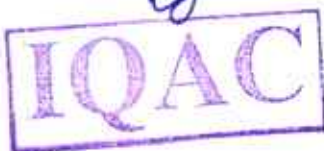
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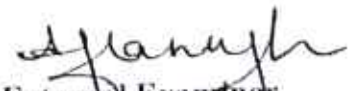

Project Guide

CH. SEKHAR, MTech
ASSOCIATE PROFESSOR


Head of the Department
Dr. B. Venkata Siva,
MTech, Ph.D. FIE(I), MISTE, INT, ASME


Internal Examiner




External Examiner


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Guntur (Dist.), A.P.

CERTIFICATE

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Project Guide

P. SRAVANI, M.Tech
ASSOCIATE PROFESSOR



Head of the Department

Dr. B. Venkata Siva,
M.Tech, Ph.D., FIE (I), MISTE, ASME, ISNT


Internal Examiner




External Examiner


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NARASARAOPETA - 522 301,
Guntur (Dist.), A.P.

CERTIFICATE

This is to certify that a major project entitled "CAR PARKING MANAGEMENT CONTROLLED BY PLC SOFTWARE" is being submitted by Mr. SASI KUMAR (20471A0318), Mr. P. PURNA CHANDRA RAO (20471A0337), Mr. SHAIK. SADHIK (20471A0350), Mr. K. PAVAN KUMAR (20471A0314), Mr. K. NAVEEN KUMAR (20471A0321), in partial fulfilment for the award of B. Tech in MECHANICAL ENGINEERING to the Narasaraopet Engineering College (Autonomous), Narasaraopet, in record of Bonafide work carried out by them under our guidance and supervision.

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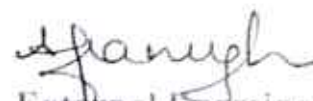

Project Guide

Dr. M. SREENIVASA KUMAR
M.Tech, Ph.D. (UK), MISTE, FIED)
PRINCIPAL


Head of the Department

Dr. B. VENKATA SIVA,
MTech, Ph.D. FIE (I), MISTE, ASME, ISNT
Professor & HOD


Internal Examiner


External Examiner

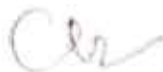



PRINCIPAL
NARASARAOPETA ENGINEERING COLLEGE
(AUTONOMOUS)
NARASARAOPET - 522 601
Guntur (Dist.), A.P.

CERTIFICATE

This is to certify that the Project entitled "ANALYSIS OF ULTRASONIC TESTING ON HOT ROLLED MILD STEEL PLATE" is being submitted by Mr. SK. PARVEZ (20471A0349), Mr. N. RAKESH (20471A0329), Mr. D. PARDHU GANESH (20471A0307), Mr. R. BADDU NAIK (20471A0339) & Mr. V. GANESH (20471A0353) in partial fulfilment for the award of B. Tech in Mechanical Engineering to the Jawaharlal Nehru Technological University Kakinada, is a record of bonafied work carried out by them under our guidance and supervision.

The results embodied in this thesis have not been submitted to any other University or Institute for the award of any degree or diploma.



Signature of the Guide
(Dr. P. SURESH BABU)



Signature of the HOD
(Dr. B. VENKATA SIVA)



Internal Examiner



External Examiner




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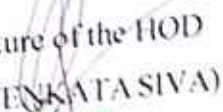
This is to certify that the Project entitled "DEFECT DETECTION ON WELDED JOINTS USING ULTRASONIC TESTING" is being submitted by Mr. P. D. BHARATH CHANDAN (20471A0338), Mr. B. RAJESH (20471A0302), Mr. B. HEMANTH KUMAR (20471A0303), Mr. A. ADITHYA VARA PRASAD (20471A0304), Mr. M. SASI PAVAN (20471A0325) in partial fulfillment for the award of B. Tech in MECHANICAL ENGINEERING to the Jawaharlal Nehru Technological University Kakinada, is a record of bonafied work carried out by them under our guidance and supervision.

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(Dr. D. SUNEEL)




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Signature of the HOD
(Dr. B. VENKATASIVA)


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This is to certify that this project entitled on "DESIGN AND ANALYSIS OF MARINE PROPELLER SHAFT BY USING FINITE ELEMENT ANALYSIS" being submitted by J. Prasad (21475A0306), M. Naga Thirumala Rao (20471A0369), D. Joseph (21475A0310), E. Leela Shankar (21475a0334), A. Pavan Kumar (20471a0357), T. Sri Vamsi Nadh (20471A0375). In partial fulfilment for the award of B. Tech in Mechanical Engineering to the Jawaharlal Nehru Technological University-Kakinada, Kakinada is a record of bonafide work carried out by him/her under our guidance.

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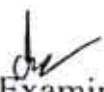
K. John Babu, M.Tech

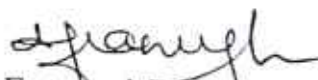
Asst. Professor


Head of the Department

Dr. B. Venkata Siva M.Tech, Ph.D, FIE(I), MISTE, ISNT, ASME

Professor & HOD


Internal Examiner


External Examiner

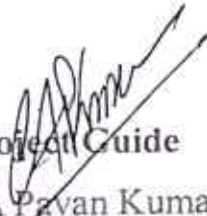



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This is to certify that this project entitled on "DESIGN AND ANALYSIS OF CAR BUMPER BY USING FINITE ELEMENT ANALYSIS" being submitted by D.Venkata Pradeep (21475A0316), P. Sai kiran Yadav(21475A0301), D. Gopi Krishna (21475A0303),S. Mahu Subhani (21475A0315),G. Hanuma koti Ganesh (20471A0364), B. Sai Ganesh(20471A0359). In partial fulfilment for the award of B. Tech in Mechanical Engineering to the Jawaharlal Nehru Technological University-Kakinada, Kakinada is a record of bonafide work carried out by him/her under our guidance.

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Mr..A Pavan Kumar, M.Tech

Asst. Professor


Head of the Department

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This is certified that the project entitled for "FABRICATION OF STAMPING MECHANISM" is being submitted by Mr.NELLURI YASWANTH(21475A0320), Mr.CH.SAI NITHIN (20471A0361),Mr.G.SIVAGANESH(21475A0333), Mr.P.PAVAN KUMAR(21475A0321),Mr. SK. MOHAMMAD TAHEER (20471A0374), in the partial fulfilment for the award of B. Tech in Mechanical Engineering to the Jawaharlal Nehru technological university-Kakinada, Kakinada is a record of bonfire work carried out by them under our Guidance. The results embodied in this thesis have not been submitted to any other University or Institute for the award of any degree or diploma.



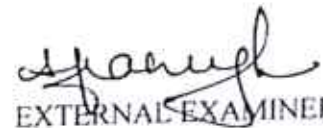
Project Guide
Mrs.D.RAGHAVENDRA M.Tech.
Assistant Professor



Head of the department
Dr.B. VENKATA SIVA M.Tech, Ph. D, FIE(I), MISTE, ASME
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INTERNAL EXAMINER



EXTERNAL EXAMINER



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This is to certify that the Project entitled "DESIGN AND FABRICATION OF MULTI-MODE ROBOTIC CAR" is being submitted by Mr. Bommali Bala Siva Yogendra Sai Nandu (21475A0330), Mr. Maddineni Ajay (20471A0367), Mr. Orchu Venkata Ravindra (21475A0319), Mr. Gangula Sunny (20471A0363), Mr. Mogili Prakash (21475A0314) in partial fulfillment for the award of B.Tech in Mechanical Engineering to the Jawaharlal Nehru Technological University Kakinada, Kakinada is a record of bonafide work carried out by him/her under our guidance.

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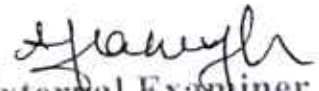

Project Guide

CH. SEKHAR, M.Tech
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Professor & HOD


Internal Examiner


External Examiner




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This is certified that the project entitled for "DESIGN AND FABRICATION OF 3D PRINTED PLANE TURBINE MECHANISM" is being submitted by Mr. N. NAVEEN (21475A0318), Mr. K. JITHENDRA SINGH (21475A0329), Mr. G. SANDEEP (21475A0313), Mr. U. NAGASURENDRA CHARI (21475A0317), Mr. Y. SAI KIRAN REDDY (20471A0376), in the partial fulfilment for the award of B. Tech in Mechanical Engineering to the Jawaharlal Nehru technological university-Kakinada, Kakinada is a record of bonfire work carried out by them under our Guidance.

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Project Guide

T. Ashok Kumar MTech
Assistant Professor


Head of the department

Dr. B. Venkata Siva MTech, Ph. D, FIE(I), MISTE, ISNT
Professor & HOD





INTERNAL EXAMINER.



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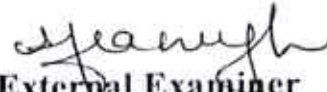
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This is to certify that the mini project entitled "IoT BASED VEHICLE ACCIDENT ALERTING SYSTEM" is the Bonafede work carried out by Mr. Sd. Sardar (21475A0302), Mr.N.Vikas (21475A0309), Mr. R. Pavan Naik (21475A0308), Mr. Ch. Venkatramiah (21475A0328) and Mr. M. Narasimha (20471A0368), under our supervision and guidance in partial fulfillment of the requirements for the award of the degree Bachelor of Technology in Mechanical Engineering, from JNTUK, Kakinada, Andhra Pradesh, during the year 2023-2024.



Project Guide
Dr. B. Venkata Siva
M.Tech, Ph.D, FIIE(I), MISTE, ISNT, ASME
Professor & HOD


Head of the Department
Dr. B. Venkata Siva
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External Examiner

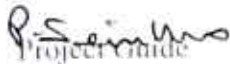



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This is to certify that the project entitled is "COMPARATIVE STUDY OF S1223RTL AIRFOIL WITH NACA 0012 AIRFOIL." is being submitted by Mr. GOLLA. SUNDARA SAMRAJYA SUGNAN (21475A0327), Mr. CHENNAMSETTY. GOPI (20471A062), Mr. GUTTIKONDA. AYYAPPA REDDY (20471A0366), Mr. SHAIK. JAKIR (20471A0373), Mr. BERAM. NARENRA REDDY (20471A0360) in partial fulfilment for the award of B. Tech in **Mechanical Engineering** to the Jawaharlal Nehru technological university-Kakinada is a record of bonafied work carried out by him/her under our guidance.

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P. SRINIVASA RAO M. TECH
Assistant professor



Head of the Department
Dr. B. VENKATA SIVA
M Tech, Ph.D., FIE (I), MISTE, ASME
PROFESSOR & HOD


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This is certified that the project entitled for "3D PRINTING OF WALKING GEAR MECHANISM" is being submitted by Mr. BAANANA PRADEEP KUMAR (21475A0322), Mr. BORUGADDA NITHIN (21475A0325), Mr. VARIKUTI KARTHIK VENKATA RAM (21475A0326), Mr. REPALLE YASHWANTHI (21475A0307), Mr. PARELLA BALA GURAVAI AH (20471A0370), in the partial fulfilment for the award of B. Tech in Mechanical Engineering to the Jawaharlal Nehrutechnological university-Kakinada, Kakinada is a record of bonfire work carried out by them under our Guidance. The results embodied in this thesis have not been submitted to any other University or Institute for the award of any degree or diploma.



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Assistant Professor



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IQAC

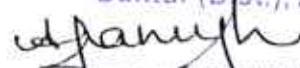
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This is to certify that this project entitled on "DESIGN AND FABRICATION OF DEXTERITY OF A HUMAN HAND BY USING 3D PRINTING" is a record Bonafide work of MORAPAKULA CHARAN TEJA (21475A0312), BANDI SRINIVAS (21475A0332), SHAIK GUTHIKONDA SALIM (20471A0372), SHAIK ADIL (21475A0305), KUPPALA SRINU (21475A0335), and MUNIKOLA SANTHOSH KUMAR (21475A0311). In partial fulfilment for the award of B. Tech in Mechanical Engineering to the Jawaharlal Nehru Technological University-Kakinada, Kakinada is a record of bonafide work carried out by him/her under our guidance. The results embodied in this book have not been submitted to any other University or Institute for the award of any degree or diploma.



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Dr. M Venkanna Babu
ME, Ph.D., MISTU

Associate Professor



Head of the Department

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M.Tech., Ph.D., IIT (Hy), MISTU, ISNT, ASME


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This is to certify that the Project entitled “ ANALYSIS OF WING LOCATION ON AERODYNAMIC PERFORMANCE OF AIRPLANE ” is being submitted by Mr. B.DEMUDU BABU (21475A0323), Mr. D.CHANDU (21475A0324), Mr. R.SAI (21475A0331), Mr. B.RAMANJANEYULU (20471A0358), Mr. S.RANENDRA VAMSHI (20471A0371) in partial fulfilment for the award of B. Tech in MECHANICAL ENGINEERING to the Jawaharlal Nehru Technological University Kakinada, is a record of bonafied work carried out by them under our guidance and supervision.

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Dr. D. Jagadish

M. Tech, Ph.D

Professor



Head Of the Department

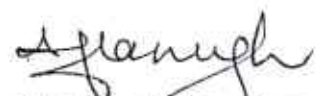
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