DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING



This is to certify that the project report entitled "LOW COST GROUND STATION USING RTL-SDR DONGLE" is being submitted by V. Harsha Kumar (19P31A0459), S. Ramya (19P31A0454), CH. Venkata Sai (19P31A0408), and been carried out in the partial fulfilment of the requirement for the award of the degree of Bachelor of Technology in Electronics and Communication Engineering, Aditya College of Engineering & Technology, Surampalem affiliated to JNTUK, Kakinada is a record of bonafide work carried out by them under my guidance and supervision during the academic period 2022-2023.

N.J. D. Project Guide

Dr. N. V. Lalitha, M. Tech., Ph. D.,

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External Examiner 184/23

DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING



This is to certify that the project report entitled "DESIGN OF HOME AUTOMATION USING MQTT BROKER TECHNIQUE" is being submitted by G V R S Amrutha (19P31A0417), M. Hrushitha(19P31A0435), M. Eswari(19P31A0434), P. Mahalakshmi Rao(19P31A0445) had been carried out in the partial fulfillment of the requirement for the award of the degree of Bachelor of Technology in Electronics and Communication Engineering, Aditya College of Engineering & Technology, Surampalem affiliated to JNTUK, Kakinada is a record of bonafide work carried out by them under my guidance and supervision during the academic period 2022-2023.

Project Guide

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DEPARTMENT OF ELECTRONICS AND COMMUNICATION **ENGINEERING**



This is to certify that the project report entitled "LOW COST AND EFFICIENT DISH CLEANER WITH IOT" is being submitted by Kudapa Devipriyanka (20P35A0401), Karella Murali (19P31A0423), Bhimanadam Janakiram (19P31A0407), Allada Hemanth (19P31A0404) and been carried out in the partial fulfilment of the requirement for the award of the degree of Bachelor of Technology in Electronics and Communication Engineering, Aditya College of Engineering & Technology, Surampalem affiliated to JNTUK, Kakinada is a record of bonafide work carried out by them under my guidance and supervision during the academic period 2022-2023.

Project Guide

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SURAMPALEM-533 437

DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING



This is to certify that the project report entitled "LOW COST AND EFFICIENT DISH CLEANER WITH IOT" is being submitted by S. Pavan Kumar (19P31A0455), Khudavan shaik (19P31A0425), N.Ganesh Chaitanya (19P31A0439), S.Shiva Rama Krishna (19P31A0453) and been carried out in the partial fulfilment of the requirement for the award of the degree of Bachelor of Technology in Electronics and Communication Engineering, Aditya College of Engineering & Technology. Surampalem affiliated to JNTUK, Kakinada is a record of bonafide work carried out by them under my guidance and supervision during the academic period 2022-2023.

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DEPARTMENT OF ELECTRONICS AND **COMMUNICATION ENGINEERING**



This is to certify that the project report entitled "IOT - BASED BABY MONITORING SYSTEM" is being submitted by S. Lakshmi Sahithi(19P31A0448), Umesh Vinod(19P31A0420), Ch. Anuradha(19P31A0458), J. Sai V. Kumar(19P31A0410) and been carried out in the partial fulfilment of the requirement for the award of the degree of Bachelor of Technology in Electronics and Communication Engineering, Aditya College of Engineering & Technology, Surampalem affiliated to JNTUK, Kakinada is a record of bonafide work carried out by them under my guidance and supervision during the academic period 2022-2023.

Ms. P. SWARNALATHA, M. Tech.

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DEPARTMENT OF ELECTRONICS AND COMMUNICATION **ENGINEERING**



CERTIFICATE

This is to certify that the project work entitled "Brain Disease Classification and Brain age estimation using CNN", is a bonafide work carried out by Musamalla Mamatha (19P31A0436), Sajja Sri Harshitha(19P31A0449), Raparthi Ashanjani (19P31A0446), Kadamati V V S Durga Vara Prasad(20P35A0404), in partial fulfillment of the requirements for the award of the degree of BACHELOR OF TECHNOLOGY in ELECTRONICS AND COMMUNICATION ENGINEERING from Aditya College of Engineering and Technology, Surampalem, during the academic year 2022-2023.

This project work has not been submitted in full or part to any other University or educational institute for the award of any degree or diploma.

N.V. Le · Cl PROJECT SUPERVISOR

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DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING



This is to certify that the project report entitled "DETECTION OF GLAUCOMA WITH CDR USING IMAGE SEGMENTATION METHODS" is being submitted by S.Chandrika(19P31A0447), A.Sai Kiriti (19P31A0401), Ch.S.K.L.Srinivas(20P35A0409),K.Manikanta Sandeep (19P31A0424) and been carried out in the partial fulfilment of the requirement for the award of the degree of Bachelor of Technology in Electronics and Communication Engineering, Aditya College of Engineering & Technology, Surampalem affiliated to JNTUK, Kakinada is a record of bonafide work carried out by them under my guidance and supervision during the academic period 2022-2023.

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DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING



This is to certify that the project report entitled "Risk factor identification and prediction of treatment planning for covid-19 patients based on CTSS Scores using machine learning techniques" is being submitted by D. Sita Mahalakshmi (19P31A0414), S. Naga Eswara Reddy (19P31A0452), G. Navya Vasavi (19P31A0418), D. Karthik (19P31A0412) has been carried out in the partial fulfilment of the requirement for the award of the degree of Bachelor of Technology in Electronics and Communication Engineering, Aditya College of Engineering & Technology, Surampalem affiliated to JNTUK, Kakinada is a record of bonafide work carried outby them under my guidance and supervision during the academic period 2022-2023.

Project Guide

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DEPARTMENT OF ELECTRONICS AND COMMUNICATION **ENGINEERING**



CERTIFICATE

This is to certify that the project work entitled, "Stock Market prediction compliance based on AL and ML", is a bonafide work carried out by Yarlagadda Sri Vidhya(19P31A0460), Kale Bhaskara Srinivas (19P31A0421), Gonthina Ramya Sanju Sree (19P31A0419), Chappa Rajesh (19P31A0419), in partial fulfillment of the requirements for the award of the degree of BACHELOR OF TECHNOLOGY in ELECTRONICS AND COMMUNICATION ENGINEERING from College of Engineering and Technology, Surampalem, during the academic year 2022-2023.

This project work has not been submitted in full or part to any other University or educational institute for the award of any degree or diploma.

PROJECT SUPERVISOR

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Awarost HEAD OF THE DEPARTMENT

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CERTIFICATE

This is to certify that the project report entitled "AUTOMATIC WASTE

SEGREGATION SYSTEM USING IOT" is being submitted P. Sri manikanta (20P35A0402) K. Siva Parvathi (19P31A0429) K. Durga Satyanarayana (19P31A0427) Syed Lal Ajmeer (20P35A0408) U. Sharon Raj (20P35A0407)by has been carried out in the partial fulfillment of the requirement for the award of the degree of Bachelor of Technology in Electronics and Communication Engineering. Aditya College of Engineering & Technology, Surampalem affiliated to JNTUK, Kakinada is a record of bonafide work carried out by them under my guidance and supervision during the academic period 2022-2023.

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EXTERNAL EXA

DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING



This is to certify that the project report entitled "REAL-TIME DROWSINESS IDENTIFICATION BASED ON EYE STATE ANALYSIS" is being submitted by Y.N.S.Ch.Sai Lakshmi (19P31A0462), O.Ganga Sri (19P31A0440), D.Mahesh Kumar (20P35A0403), U.Nagesh (20P35A0405), S.Pavan Kumar (19P31A0451) and been carried out in the partial fulfilment of the requirement for the award of the degree of Bachelor of Technology in Electronics and Communication Engineering, Aditya College of Engineering & Technology, Surampalem affiliated to JNTUK, Kakinada is a record of bonafide work carried out by them under my guidance and supervision during the academic period 2022-2023.

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DEPARTMENT OF ELECTRONICS AND COMMUNICATIONENGINEERING



This is to certify that the project report entitled "AN ENERGY EFFICIENCY ROUTING PROTOCOLS FOR IOT ENABLED WSNs" is being submitted to A. Lalitha (19P31A0403), S. Hemanth (19P31A0450), K. Venkata Aakash (19P31A428), K. V. S. Koushik (19P31A0422) has been carried out in the partial fulfillment of the requirement for the award of the degree of Bachelor of Technology in Electronics and Communication Engineering, Aditya College of Engineering & Technology, Surampalem affiliated to JNTUK, Kakinada is a record of bonafide work carried outby them under my guidance and supervision during the academic period 2022-2023.

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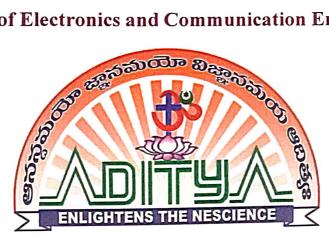
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CERTIFICATE

This is to certify that the project report entitled "Hough Transform Based Lane detection Algorithm for Advanced Driver Assistance Systems (ADAS)" is being submitted by N.S.K.Sukanya(19P31A0438), K.Krishna Priya(19P31A0426), B. Sarvani(20P35A0406), P. Krishna Vamsi(19P31A0444) has been carried out in the partial fulfillment of the requirement for the award of the degree of Bachelor of Technology in Electronics and Communication Engineering, Aditya College of Engineering & Technology, Surampalem affiliated to JNTUK, Kakinada is a record of bonafide work carried outby them under my guidance and supervision during the academic period 2022- 2023.

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DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING



This is to certify that the project report entitled "IOT – BASED COMPACT ECG MONITORING SYSTEM FOR SMART HEALTHCARE" is being submitted by T. Vijaya Lakshmi Durga (19P31A0457), D. Bhavana Sandhya (19P31A0457), K. Pavan Kumar (19P31A0431), P.V.V.Santosh Reddy (19P31A0441) and been carried out in the partial fulfilment of the requirement for the award of the degree of Bachelor of Technology in Electronics and Communication Engineering, Aditya College of Engineering & Technology, Surampalem affiliated to JNTUK, Kakinada is a record of bonafide work carried out by them under my guidance and supervision during the academic period 2022-2023.

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DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING



This is to certify that technical project report titled

"Multi Modal Image Fusion Techniques to Detect Brain Tumor"

Being Submitted by

P. Vinitha	19P31A0443
D. Manikanta Raju	19P31A0411
Y. Siva Satya Narayana	19P31A0461
K. Phani Harshitha	19P31A0430

In the partial fulfilment of the requirements for the award of the degree of Bachelor of Technology in Electronics And Communication Engineering from Aditya College of Engineering and Technology, Surampalem-affilicated to JNTU Kakinada. It is a record of bonafide work carried out by her/his under the esteemed guidance and supervision of Ms. P. A. Sravanthi during the academic year 2022-2023.

Project Guide

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Assistant Professor

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Dr. R.V.V. Keishing McTech, Ph.D.

Professor & HODOITEGE OF Engineering & Technology Dept.sof FAMPALEM-533: 437

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Department of Electronics and Communication Engineering



CERTIFICATE

This is to certify that the project report entitled "IOT BASED COLLEGE BUS MONITORING SYSTEM" is being submitted by S. Rajitha (19P31A0456), B.Shivaramakrishna (19P31A0406), A. Sreeya(19P31A0405), K. N. S. V. S. Sai Nikesh(19P31A0437) has been carried out in the partial fulfillment of the requirement for the award of the degree of Bachelor of Technology in Electronics and Communication Engineering, Aditya College of Engineering & Technology, Surampalem affiliated to JNTUK, Kakinada is a record of bonafide work carried out by them under my guidance and supervision during the academic period 2022-2023.

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CERTIFICATE

This is to certify that the project report entitled "MONITOR AND CONTROL OF GREENHOUSE EFFECT USING MULTIPLE SENSORS USING IOT" is being submitted by Kanuri Likhitha (19P31A0490), Gunnam Ramadevi (19P31A0485), Pallela Jayakrishna (20P35A0412), Navvudu Saisudheer (19P31A04A1) has been carried out in the partial fulfilment of the requirement for the award of the degree of Bachelor of Technology in Electronics and Communication Engineering, Aditya College of Engineering & Technology, Surampalem affiliated to JNTUK, Kakinada is a record of bonafide work carried out by them under my guidance and supervision during the academic period 2022-2023.

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Department of Electronics and Communication Engineering



CERTIFICATE

This is to certify that the project report entitled "WEED DETECTION IN CROPS BY IMAGE PROCESSING" is being submitted by Pandrinki Hari Varun Kumar (19P31A04A4), Karri Anu (19P31A0491), Nakka Rajesh (19P31A04A0), Bevara Naga Sai Durga (19P31A0473), Kuthani Indrani (19P31A0496) has been carried out in the partial fulfillment of the requirement for the award of the degree of Bachelor of Technology in Electronics and Communication Engineering, Aditya College of Engineering & Technology, Surampalem affiliated to JNTUK, Kakinada is a record of bonafide work carried outby them under my guidance and supervision during the academic period 2022-2023.

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(Permanently Affiliated to JNTUK, Approved by AICTE)

Department of Electronics and Communication Engineering



CERTIFICATE

This is to certify that the project report entitled "Automatic Crop Protection From Heavy Rainfall and Preserving Rain Water Using IOT" is being submitted by S.S. N.Chandu(19P31A04B9), Ch.SaiKumar(19P31A0478), K.SugunaKumari(20P35A 0416), K.S.L Pranesh(19P31A0489), V. Prasad(19P31A04C3) has been carried out in the partial fulfilment of the requirement for the award of the degree of Bachelor of Technology in Electronics and Communication Engineering, Aditya College of Engineering & Technology, Surampalem affiliated to JNTUK, Kakinada is a record of bonafide work carried out by them under my guidance and supervision during the academic period 2019-2023.

Ms. P.SWARNALATHA, M. Tech

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Department of Electronics and Communication Engineering



CERTIFICATE

This is to certify that the project report entitled "CANCER CELL DETECTION IN BLOOD SAMPLES USING IMAGE PROCESSING TECHNIQUES" is being submitted by Burra Trilokanadh (19P31A0477), Arava Sai Kishore (19P31A0469), Puppala Yashwanth Kumar (19P31A04B2), Nunna Chandra Veera Sai Sudheer (19P31A04A2), has been carried out in the partial fulfillment of the requirement for the award of the degree of Bachelor of Technology in Electronics and Communication Engineering, Aditya College of Engineering & Technology, Surampalem affiliated to JNTUK, Kakinada is a record of bonafide work carried outby them under my guidance and supervision during the academic period 2022-2023.

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CERTIFICATE

This is to certify that the project report entitled "VEDIC SQUARE CALCULATOR DESIGN USING QUANTUM DOT CELLULAR AUTOMATA (QCA)" is being submitted by K. S. S. Supraja (19P31A0495), G. Sravanthi (19P31A0481), P. L. Deepika (19P31A04A5), P. Satyanarayana (20P35A0414). It has been carried out in the partial fulfillment of the requirement for the award of the degree of Bachelor of Technology in Electronics and Communication Engineering, Aditya College of Engineering & Technology, Surampalem affiliated to JNTUK, Kakinada is a record of bonafide work carried outby them under my guidance and supervision during the academic period 2022-2023.

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Head of the Department
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Department of Electronics and Communication Engineering



CERTIFICATE

This is to certify that the project report entitled "A NEURAL NETWROK FOR LICENSE PLATE DETECTION AND RECOGNITION" is being submitted by Bhavya Sri Nimmalapudi (19P31A0474), Kalapu Raghavendra Sai Kiran (19P31A0488), Gowri Manikanta Varaprasad (19P31A0471), Patamasetti Balaji Beeraka (19P31A04A6) has been carried out in the partial fulfillment of the requirement for the award of the degree of Bachelor of Technology in Electronics and Communication Engineering, Aditya College of Engineering & Technology, Surampalem affiliated to JNTUK, Kakinada is a record of bonafide work carried out by them under my guidance and supervision during the academic period 2022-2023.

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CERTIFICATE

This is to certify that the project report entitled "A DIGITAL AUDIO WATERMARKING SCHEME BASED ON SINGULAR VALUE DECOMPOSITION" is being submitted by Kakara Srilakshmi (19P31A0487), Koppireddy Sravani (19P31A0494), Marni Varsha Chandu Sri (19P31A0498), Sanipini Divya (19P31A04B8) has been carried out in the partial fulfillment of the requirement for the award of the degree of Bachelor of Technology in Electronics and Communication Engineering, Aditya College of Engineering & Technology, Surampalem affiliated to JNTUK, Kakinada is a record of bonafide work carried outby them under my guidance and supervision during the academic period 2022-2023.

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Head of the Department Dr. R. V. V. KRISHNAGAL GEOGRAPH. Department Professor & HODAditya College of Dept. of ECEEngineering & Technology SURAMPALEM-533 437

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Department of Electronics and Communication Engineering



CERTIFICATE

TUMOR SEGMENTATION USING MODIFIED RANDOM WALK ALGORITHM" is being submitted by Patrayani Srividya(19P31A04B0), Maddala Srihari (20P35A0415), Garapati Priyanka Sahithi (19P31A0482), Karri Mohan Mani Eswar (19P31A0492) has been carried out in the partial fulfillment of the requirement for the award of the degree of Bachelor of Technology in Electronics and Communication Engineering, Aditya College of Engineering & Technology Surampalem affiliated to JNTUK, Kakinada is a record of bonfire work carried out by them under my guidance and supervision during the academic period 2022-2023.

Project Guide

Mrs. A. Rama Vasantha, M.Tech,(Ph.D)

Associate Professor

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Head of the Department

Head of the Department of the Department of the Department of the Engineering & Technology

Dr.R.V.SUKRHAAMAAMATSCLEP.D.

Professor&HOD Dept.of ECE

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Department of Electronics and Communication Engineering



CERTIFICATE

This is to certify that the project report entitled "SKIN CANCER (MELANOMA) SEGMENTATION USING CONVOLUTIONAL NEURAL NETWORKS" is being submitted by Pepakayala Divyasree (19P31A04B1) , Goli Umamaheswari (19P31A0484), Kotha Lakshmi Sowmya (20P35A0413), Vallapudasu Jahnavi Devi (19P31A04C2) has been carried out in the partial fulfillment of the requirement for the award of the degree of Bachelor of Technology in Electronics and Communication Engineering, Aditya College of Engineering & Technology, Surampalem affiliated to JNTUK, Kakinada is a record of bonafide work carried out by them under my guidance and supervision during the academic period 2022-2023.

Mukhohe

Dr. R. V. V. KRISHNA, M. Tech, Ph.D

Professor & HOD

Dept. of ECE

Head of the Department

Dept.of ECE

Aditya College of

Engineering & Technology

SURAMPALEM-538XFERNAL EXAMINER

Head of the Department

Dr. R. V. V. KRISHNA, M. Tech, Ph.D

Awhore

Professor & HOD

Dept. of ECE

Head of the Department Dept.of ECE Aditya College of Engineering & Technology SURAMPALEM-533 437

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Department of Electronics and Communication Engineering



CERTIFICATE

This is to certify that the project report entitled "IDENTIFICATION OF CURRENCY BY IMAGE PROCESSING TECHNIQUES AND ARTIFICIAL INTELLIGENCE" is being submitted by V.J.S.Sushma (19P31A04C1), A.N.S.S.L.Sahithi (19P31A0467), M.Sandeep Kumar (19P31A0499), A.Srikanth (19P31A0468) has been carried out in the partial fulfillment of the requirement for the award of the degree of Bachelor of Technology in Electronics and Communication Engineering, Aditya College of Engineering & Technology, Surampalem affiliated to JNTUK, Kakinada is a record of bonafide work carried outby them under my guidance and supervision during the academic period 2022-2023.

Ms. V.Preethi, M.Tech

Assistant Professor Dept. of ECE **Head of the Department**

Dr. R. V. Vijaya Krishna, M. Tech, Ph.D.

Professor & HOD

Dept. of ECE

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Department of Electronics and Communication Engineering



CERTIFICATE

This is to certify that the project report entitled "SIGN LANGUAGE COMMUNICATION WITH DUMB PEOPLE USING RASPBERRY PI" is being submitted by Kesireddy Charan Raj (20P35A0411), Beeraka Sai Jyothika (19P31A0472), Vasamsetti Navya Sree (19P31A04C5), Prathipati Hari Krishna (19P31A04A9) has been carried out in the partial fulfillment of the requirement for the award of the degree of Bachelor of Technology in Electronics and Communication Engineering, Aditya College of Engineering & Technology, Surampalem affiliated to JNTUK, Kakinada is a record of bonafide work carried outby them under my guidance and supervision during the academic period 2022-2023.

Project Guide

Mr. K. Jayaram Kumar, M.Tech(Ph.D)

Assistant Professor

Department of ECE

Head of the Department Dept. of ECE

Dr. R. V. V. KRISHNA, M. Tech., Ph.D

Professor & HOD

Department of ECE

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Department of Electronics and Communication Engineering



CERTIFICATE

This is to certify that the project report entitled "TRAFFIC CONGESTION DETECTION USING ACTIVE RFID UNDER THINGSPEAK IN SMART CITIES" is being submitted by Inuganti Sri Sai Bhanu Tejaswini (19P31A0486), Bonda Rajesh Babu (19P31A0476), Adduri Vismitha (19P31A0466), Dangeti Adithya (19P31A0479) has been carried out in the partial fulfillment of the requirement for the award of the degree of Bachelor of Technology in Electronics and Communication Engineering, Aditya College of Engineering & Technology, Surampalem affiliated to JNTUK, Kakinada is a record of bonafide work carried outby them under my guidance and supervision during the academic period 2022-2023.

Project Guide

Dr.T.S.KARTHIK, M.Tech.Ph.D

Professor

Dept. of ECE

Head of the Department

Dr. R. V. V. KRISHNA, M. Tech, Ph.D

Awlunda

Professor & HOD

Dept. of ECE

Head of the Department
Dept. of ECE
Aditya College of
Engineering & Technology
SURAMPALEM-533 437



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This is to certify that the project report entitled "DIAGNOSIS OF POMEGRANATE PLANT DISEASES USING NEURAL NETWORK" is being submitted by P.S.D. Sita Mahalakshmi (19P31A04B4), G. Naga Satish (20P35A0417), B. Krupa Venkata Kumar (19P31A0475), M.S. Surya Bhavani (19P31A0497), R.S. Ajay Babu (19P31A04B6) has been carried out in the partial fulfilment of the requirement for the award of the degree of Bachelor of Technology in Electronics and Communication Engineering, Aditya College of Engineering & Technology, Surampalem affiliated to JNTUK, Kakinada is a record of bonafide work carried out by them under my guidance and supervision during the academic period 2022-2023.

Project Cuide

Dr. G. A. Arun Kumar M. Tech, Ph. D

Associate Professor

Dept. of ECE

Head of the Dan arther bepartment

Dr. R. VAV. KRISH AM Tsch Ph.D.

Professor nginearing & Technology

SURAMPALEM-533 437

Dept. of ECE

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Ph:99591 76665, Email: office@acet.ac.in, acet.ac.in

Department of Electronics and Communication Engineering



CERTIFICATE

This is to certify that the project report entitled "FLOOD DETECTION AND ALERTING SYSTEM USING MACHINE LEARNING" is being submitted by Pydi Bhanu Naga Saisree(19P31A04B3), K. Manikanta Reddy(20P35A0410), G. Ram Chand(19P31A0483), A. Jaya Krishna Srinivas(19P31A0465) has been carried out in the partial fulfillment of the requirement for the award of the degree of Bachelor of Technology in Electronics and Communication Engineering, Aditya College of Engineering & Technology, Surampalem affiliated to JNTUK, Kakinada is a record of bonafide work carried out by them under my guidance and supervision during the academic period 2022-2023.

Dr. N.V. Lalicha, Ph D.

Associate Professor

Dept. of ECE

Head Archeving College of
Dengine or Right At Tech, Ph.D.

Professor & HOD

Dept. of ECE

DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING



CERTIFICATE

This is to certify that the project report entitled "AN INNOVATIVE MEDICINE PILL DISPENSER USING BUBBLE SORTING METHOD FOR HEALTH CARE APPLICATIONS" is being submitted by R. Kusuma Sri Aruna (19P31A04B5), Varun Thakur (19P31A04C4), P. N. M. Gangadhar (19P31A04A7), A. Durga Devi (19P31A0470), T. Varsha Deepika (19P31A04C0) has been carried out in the partial fulfilment of the requirement for the award of the degree of Bachelor of Technology in Electronics and Communication Engineering, Aditya College of Engineering & Technology, Surampalem affiliated to JNTUK, Kakinada is a record of bonafide work carried outby them under my guidance and supervision during the academic period 2022-2023

Project Guide

Dr . T. S. Karthik M. Tech, Ph. D

Professor

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Head of the Department

Dr. R. V. V. KRISHNA, M. Tech, Ph. D

Professor & HOD

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Head of the Department
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Department of Electronics and Communication Engineering



CERTIFICATE

This is to certify that the project report entitled "AN EFFICIENT HEALTH CLOUD

SERVICE PROVIDER MAPPING SCHEME FOR WIRELESS BODY AREA NETWORKS" is being submitted by Kona Sai Nikhil (19P31A0493), Sanikommu KeerthiReddy (19P31A04B7), Pathala Saisrinivas (19P31A04A8), Yellapu Jnaneswararao (19P31A04C6) has been carried out in the partial fulfilment of the requirement for the award of the degree of Bachelor of Technology in Electronics and Communication Engineering, Aditya College of Engineering & Technology, Surampalem affiliated to JNTUK, Kakinada is a record of Bonafede work carried out by them under my guidance and supervision during the academic period 20222023.

Project Guide

Mr. G. SATTIBABU, MTech. (Ph.D.)

Assistant Professor

Cr Jox

Dept. of ECE

Head of the Department

Dr. R. V. V. KRISHNA, M. Tech, Ph.D.

Professor & HOD

Dept. of ECE

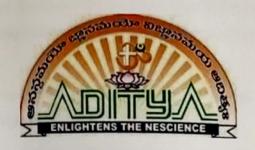
Head of the Department

Dept.of ECE

Aditya College of

Engineering & Technology SURAMPALEM-533 437

DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING



This is to certify that technical project Part-II report titled

"IMAGE STEGANOGRAPHY USING SPATIAL DOMAIN TECHNIQUES AND ADVANCED ENCRYPTION STANDARD (AES) ALGORITHM"

Being submitted by

 P.Madhulatha
 (19P31A04H8)

 G.Srikanth
 (19P31A04E9)

 P.Manikanta
 (19P31A04H4)

 N.Rakesh varma
 (19P31A04H3)

In the partial fulfilment of the requirements for the award of Degree of Bachelor of Technology in **ELECTRONICS AND COMMUNICATION ENGINEERING**. It is a record of bonafide work carried out by a team under the esteemed guidance and supervision of **Dr**.**D**. **Kishore** for the academic year 2022-2023.

Project Guide USE

Dr. D. Kishore, M. Tech, Ph. D

Professor & HOD

Department of ECE

Head of the Department

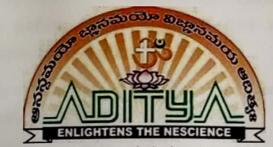
Dr. D. Kishore, M. Tech, Ph. D

Professor & HOD

Department of ECE

A.m. proced

DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING



This is to certify that technical project part-II report titled

" DESIGN OF HIGH EFFICIENT OPTIMIZED 4- BIT PARALLEL ADDER USING QCA TECHNOLOGY"

Being submitted by

19P31A04D3 B. Swathi

19P31A04I7 V. Jahnavi

19P31A04F6 K.N.S.L. Deepika

19P31A04I2 S. Koushik

In the partial fulfilment of the requirements for the award of Degree of Bachelor of technology in ELECTRONICS AND COMMUNICATION ENGINEERING. It is a record of bonafide work carried out by her/his under the esteemed guidance and supervision of Mr. Jaldu Surendranadh during the academic year 2022-2023.

Project Guide

Mr.Jaldu Surendranadh, M.Tech Assistant Professor E.C.E Department

Dr.D.Kishore, M.Tech, Ph.D,;

Professor

E.C.E Department

DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING



This is to certify that technical project part-II report titled

"An Optimized Eight Bit Binary to Gray Code Converter

using Quantum-dot Cellular Automata"

Being submitted by

Manyala Bhavanidevi	19P31A04G5
Kadiyam Vivek	19P31A04F3
Adapa Naga Praveen	20P35A0418
Kadiyapu Venkata Sai Abhishek	19P31A04F4

In the partial fulfilment of the requirements for the award of Degree of Bachelor of Technology in **ELECTRONICS AND COMMUNICATION ENGINEERING**. It is a record of bonafide work carried out by her/his under the esteemed guidance and supervision of **Mr. T. Anjaiah** for the academic year 2022-2023.

Project Guide

Mr T. Anjaiah M.Tech, (Ph.D).

Associate Professor

E.C.E Department

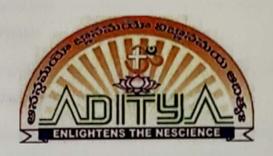
Head of the Department

Dr. D. Kishore, M. Tech, Ph. D

Professor

E.C.E Department

DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING



This is to certify that technical project part-II report titled

"AUTOMATIC LAYER CHICKEN POULTRY FARM EMPLOYING IOT"

Being submitted by

Ch. SriSri	19P31A04D7
T. Krishna Neelima	19P31A04I6
S. Sona Satya Sai Gangotri	19P31A04I3
N. Teja Sri	19Р31А04Н0

In the partial fulfilment of the requirements for the award of Degree of Bachelor of Technology in ELECTRONICS AND COMMUNICATION ENGINEERING. It is a record of bonafide work carried out by her/his under the esteemed guidance and supervision of Mr. Muthilingam Dharmapuri for the academic year 2022-2023.

Project Guide

Mr. Muthilingam Dharmapuri

Associate Professor

E.C.E Department

Head of the Department

Dr. D. Kishore, M.Tech, Ph.D

Professor

E.C.E Department

DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING



This is to certify that technical project part-I report titled

"COVID-19 DETECTION USING A DEEP LEARNING MODEL BASED ON CHEST X-RAYS"

Being submitted by

K. Divya Sri	19P31A04G0
N. Vijay	19P31A04H2
E. Lova Vishnu	19P31A04E3

B. Sai Eswar 19P31A04D2

In the partial fulfillment of the requirements for the award of Degree of Bachelor of technology in ELECTRONICS AND COMMUNICATION ENGINEERING. It is a record of bonafide work carried out by her/his under the esteemed guidance and supervision of **Dr. V Vijaysri** Bolisetty during the academic year 2019-2023.

Project Guide

Dr. V Vijaysri Bolisetty Associate Professor E.C.E Department Head of the Departmen

Dr. D. Kishore, M.Tech, Ph.D Associate Professor E.C.E Department

DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING



This is to certify that technical project part-II report titled

"BIOMETRIC ENABLED WEB BASED FALSE PROOF PLACEMENT ANALYSIS AND TRACKING SYSTEM"

Being submitted by

G. Lavanya 19P31A04E4

M.T.S.V.M. Usha Devi 19P31A04G4

M.V.S. Saketh 20P35A0419

K. Siyaram 19P31A04G1

In the partial fulfilment of the requirements for the award of Degree of Bachelor of technology in ELECTRONICS AND COMMUNICATION ENGINEERING. It is a record of bonafide work carried out by her/his under the esteemed guidance and supervision of Mr. I. Ramesh Raja during the academic year 2022-2023.

Mr. I. Ramesh Raja M.E(Ph.D)

Associate Professor E.C.E Department Dr. D. Kishore, M.Tech ,Ph.D

Professor

E.C.E Department

DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING



This is to certify that technical project Part-II report titled

"AN IOT-POWERED REAL-TIME STREET LIGHTING SYSTEM FOR THE ADITYA CAMPUS"

Being submitted by

P.Manikanta	(19P31A04H5)
P.Veera babu	(19P31A04H6)
G.Dileep Kumar	(19P31A04E7)
J.Pradeep	(20P35A0424)

In the partial fulfilment of the requirements for the award of Degree of Bachelor of Technology in **ELECTRONICS AND COMMUNICATION ENGINEERING**. It is a record of bonafide work carried out by a team under the esteemed guidance and supervision of **Mr. V.V. Srinivas Raaparti** for the academic year 2022-2023.

Project Guide

Mr. V.V. Srinivas Raaparti, M.Tech

Assistant Professor

Department of ECE

Head of the Department

Dr. D. Kishore, M. Tech, Ph.D

Professor & HOD

Department of ECE

DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING



This is to certify that technical project part-II report titled

"SMART SENSOR ENABLED FOR SURVEILLANCE FOR HIGH END SECURITY"

Being submitted by

K. Anusha Devi 19P31A04F9
G.V.K.S. Jnanesh 19P31A04E6
N.S.S.L. Lalitha 20P35A0420
S. Likitha Jyothi 19P31A04I5

In the partial fulfilment of the requirements for the award of Degree of Bachelor of technology in **ELECTRONICS AND COMMUNICATION ENGINEERING**. It is a record of bonafide work carried out by her/his under the esteemed guidance and supervision of **Dr. A**. **B. Siddique** during the academic year 2022-2023.

Project Guide

Dr. Abu Bakar Siddique, M.Tech, Ph.D. Assistant Professor E.C.E Department Head of the Department

Dr. D. Kishore, M.Tech, Ph.D. Associate Professor & HOD E.C.E Department

ii

DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING



This is to certify that technical project part-II report titled

"DESIGN OF GYROSCOPE CONTROL 6-6 STEWART

PLATFORM"

Being submitted by

19P31A04J0 V.DEVI AISHWARYA 19P31A04I8

19P31A04D9 CH.DEEPTHI

19P31A04F0 G. TARUN TEJA

In the partial fulfilment of the requirements for the award of Degree of Bachelor of Technology in ELECTRONICS AND COMMUNICATION ENGINEERING. It is a record of bonafide work carried out by her under the esteemed guidance and supervision of Dr. R. Anil Kumar for the academic year 2022-2023.

Project Guide

V.GANESH

Dr. R. Anil Kumar, M. Tech, Ph.D

Associate Professor

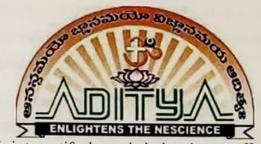
E.C.E Department

Dr. D. Kishore, M.Tech, Ph.D

Associate Professor

E.C.E Department

DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING



This is to certify that technical project part-II report titled

"ENHANCED GAIN AND REDUCED SIDELOBES FOR 5G BROADCAST APPLICATIONS USING SUBMILLI METERWAVE PATCH ANTENNA"

Being submitted by

G.NANDINI 19P31A04E8

P.LAKSHMI SATYA 19P31A04H7

M.G SANKAR REDDY 19P31A04G6

B.G S S RAMPRASAD 19P31A04D6

In the partial fulfilment of the requirements for the award of Degree of Bachelor of technology in ELECTRONICS AND COMMUNICATION ENGINEERING. It is a record of bonafide work carried out by her/his under the esteemed guidance and supervision of Mrs. Rajitha Kudipudi during the academic year 2022-2023.

Project Guide

Mrs.Rajitha Kudipudi,M.Tech AssistantProfessor E.C.E Department Head of the Department

Dr. D. Kishore, M.Tech.,Ph.D Professor E.C.E Department

DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING



This is to certify that technical project part-II report titled

"SIGN LANGUAGE DETECTION USING CNN"

Being submitted by

K. SREE RAMYA	19P31A04G2
A.SRINIVAS	19P31A04C9
B.ESWAR SAI SAMPATH	19P31A04D4
G.DIWAKAR	19P31A04E5

In the partial fulfilment of the requirements for the award of Degree of Bachelor of technology in **ELECTRONICS AND COMMUNICATION ENGINEERING**. It is a record of bonafide work carried out by her/his under the esteemed guidance and supervision of Ms. Sneha M Joseph during the academic year 2022-2023.

Project Guide

Ms. Sneha M Joseph, M.Tech, (Ph.D) Assistant Professor E.C.E Department

External Examiner

Head of the Department

Dr. D. Kishore, M.Tech,Ph.D Professor E.C.E Department

DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING



This is to certify that technical project part-I report titled

"ESP32 CAM BASED CONTACT LESS DOOR BELL SECURITY SYSTEM USING IOT"

Being submitted by

N.Sirisha 19P31A04G9

P.Rajesh Kumar 19P31A04H9

E.Sandhya 19P31A04E2

A.Chandra Sekhar 19P31A04D0

In the partial fulfilment of the requirements for the award of Degree of Bachelor of technology in **ELECTRONICS AND COMMUNICATION ENGINEERING**. It is a record of bonafide work carried out by her/his under the esteemed guidance and supervision of Mrs.S.S.V.Kiranmayi during the academic year 2022-2023.

Project Guide

Mrs .S.S.V.Kiranmayi, M.Tech Assistant Professor E.C.E Department

anlain

Head of the Department

Dr. D. Kishore, M.Tech ,Ph.D Professor E.C.E Department

CERTIFICATE DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING



This is to certify that technical project part-II report titled

DISTINGUISHING COMPUTER GENERATED IMAGES FROM NATURAL IMAGES USING CONVOLUTIONAL NEURAL NETWORK

Being submitted by

R. Ragha Mounika 19P31A04I0

K. Hemanth Kumar 19P31A04F2

S. Jagadeesh Kumar 19P31A04I4

B. Naresh 19P31A04D5

In the partial fulfilment of the requirements for the award of Degree of Bachelor of technology in **ELECTRONICS AND COMMUNICATION ENGINEERING**. It is a record of bonafide work carried out by her/his under the esteemed guidance and supervision of **Ms. M. Sowjanya** during the academic year 2022-2023.

Project Guide

Ms. M. Sowjanya, M. Tech Assistant Professor E.C.E Department Head of the Department

Dr. D. Kishore, M. Tech, Ph. D Professor E.C.E Department

Am press External Examiner

DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING



This is to certify that technical project part-II report titled

IOT BASED SMART ASSISTANCE GLOVES FOR PARALYZED PEOPLE

Being submitted by

G. SRAVYA	19P31A04F1
N.V.S.S.S. MOUNIKA	19P31A04H1
A. GREESHMA RAMYA SREE	20P35A0422
K. SAI LAKSHMI	19P31A04F5

In the partial fulfilment of the requirements for the award of Degree of Bachelor of technology in ELECTRONICS AND COMMUNICATION ENGINEERING. It is a record of bonafide work carried out by her under the esteemed guidance and supervision of Mr.K. PRAVEEN KUMAR during the academic year 2022-2023.

Project Guide

Mr. K. PRAVEEN KUMAR, M.Tech

Assistant Professor E.C.E Department Dr. D. Kishore, M.Tech,Ph.D

Professor

E.C.E Department

DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING



"HAND GESTURE CONTROLL TRIANGULAR ROBOT USING OPEN CV"

Being submitted by

N Durga Surya Prakash	19P31A04G8
K Geetanjani reddy	20P35A0421
A. Jagadeesh	20P35A0425
R.C.V. Sairam	20P35A0426

In the partial fulfilment of the requirements for the award of Degree of Bachelor of technology in ELECTRONICS AND COMMUNICATION ENGINEERING. It is a record of bonafide work carried out by her/his under the esteemed guidance and supervision of Ms.K.M.V.V.L.Manasa during the academic year 2022-2023.

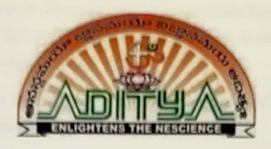
C. Marara Project Guide

Ms.K.M.V.V.L.Manasa, M.Tech Assistant Professor E.C.E Department

Head of the Department

Dr. D. Kishore, M.Tech ,Ph.D Professor E.C.E Department

DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING



This is to certify that technical project part-II report titled

"WIRELESS RF BASED ROBOTIC ARM USING GESTURE CONTROL"

Being submitted by

A.KONDABABU	19P31A04D1
D.RUDRA SAI TEJA REDDY	19P31A04E1
CH.MADHU NEHA	19P31A04D8
K.SIVA SURYANARAYANA	19P31A04F7

In the partial fulfilment of the requirements for the award of Degree of Bachelor of Technology in ELECTRONICS AND COMMUNICATION ENGINEERING. It is a record of bonafide work carried out by her under the esteemed guidance and supervision of Ms. M.Kaivalya for the academic year 2022-2023.

Project Guide

Ms . M.Kaivalya, M.Tech

Associate Professor

E.C.E Department

Head of the Department

Dr. D. Kishore, M. Tech, Ph. D

Professor

E.C.E Department

DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING



This is to certify that technical project part- II report titled

"IOT BASED SMART MIRROR WITH EVERYDAY UTILITIES"

Being submitted by

K.Chinmayee 19P31A04F8

M.Monika Devi 19P31A04G7

M.Roshini 19P31A04G3

P.V.Hari Charan 20P35A0423

In the partial fulfilment of the requirements for the award of Degree of Bachelor of technology in **ELECTRONICS AND COMMUNICATION ENGINEERING**. It is a record of bonafide work carried out by her/his under the esteemed guidance and supervision of **Mr.Balu** ramavath during the academic year 2022-2023.

B Rounowold Project Guide

Mr.Balu Ramavath, M.Tech Assistant Professor E.C.E Department Head of the Department

Dr. D. Kishore, M.Tech, Ph.D Professor E.C.E Department

CERTIFICATE DEPARTMENT OF

ELECTRONICS AND COMMUNICATION ENGINEERING



This is to certify that technical project part-II report titled

"PREDICTING THE TYPE OF SKIN CANCER USING LESION IMAGE DIAGNOSIS WITH CNN MODEL"

Being submitted by

Bhamidipati Tejaswi

18P31A04C6

Bandaru Purna Chandu

18P31A04I7

In the partial fulfilment of the requirements for the award of Degree of Bachelor oftechnology in ELECTRONICS AND COMMUNICATION ENGINEERING, It

is a record of bonafied work carried out by her under the esteemed guidance and supervision of Mr. T.Anjaiah during the academic year 2022-2023.

Project Guide

Ør. R. Anil-Kumar, Ph. D

Professor

E.C.E Department

Head of the Department

Dr. D. Kishore, M.Tech, Ph.D

Professor

E.C.E Department

EXTERNAL EXAMINER

CERTIFICATE DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING



This is to certify that technical project part-II report titled

IOT-POWERED VEHICLE ACCIDENT PREVENTION & VEHICLE SAFETY

Being submitted by

N.Vijaya Sai	19P31A04M8
P.Navya Sri	19P31A04N2
L.Bhavani	19P31A04L9
K.N.V. Dhanunjay	19P31A04L5

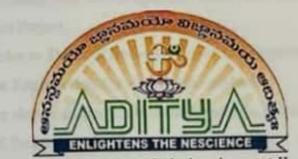
In the partial fulfilment of the requirements for the award of Degree of Bachelor of technology in **ELECTRONICS AND**COMMUNICATION ENGINEERING. It is a record of bonafide work carried out by his under the esteemed guidance and supervision of Mr.Khajamohinoddin Mohammad during the academic year 2022-2023h.

Project Guide

Mr.K Mohammad, M.Tech Assistant Professor E.C.E Department Head of the Department

Dr.D.Kishore, M.Tech, Ph.D Professor E.C.E Department

CERTIFICATE DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING



This is to certify that technical project part-II report titled

VOICE CONTROLLED ROBOT CAR USING WIFI MODULE

Being submitted by

B. AKHILANJANI	19P31A04J8
T. VENKATA LAKSHMI	19P31A04O8
G. INDIRA	19P31A04L1
Y. KARTHIK	19P31A04P1

In the partial fulfilment of the requirements for the award of Degree of Bachelor of technology in **ELECTRONICS AND COMMUNICATION ENGINEERING**. It is a record of bonafied work carried out by her under the esteemed guidance and supervision of Dr. V VijayaSri Bolisetty during the academic year 2022-2023.

Dr. V VijayaSri Bolisetty

Associate Professor

Project Guide

E.C.E Department

Dr. D. Kishore, M.Tech ,Ph.D

Professor

E.C.E Department

CERTIFICATE DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING



This is to certify that technical project part-II report titled

"Student Attendance system using facial recognition with SMS Notification"

Being submitted by

B. Sai Vindhya Vasini	19P31A04K1
T. Sriram	19P31A04O4
D.N. Satya Prakash	19P31A04K8
K. Yashwanth	19P31A04L7

In the partial fulfilment of the requirements for the award of Degree of Bachelor of technology in ELECTRONICS AND COMMUNICATION ENGINEERING. It is a record of bonafide work carried out by her/his under the esteemed guidance and supervision of Mr. I. Ramesh Raja, M.E(Ph. D) during the academic year 2022-2023.

Mr. I. Ramesh Raja, M.E(Ph.D) Associate Professor

E.C.E Department

Head of the Bellariment

Dr. D. Kishore, M.Tech, Ph.D Professor E.C.E Department

CERTIFICATE DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING



FAKE NEWS DETECTION USING MACHINE LEARNING

Being submitted by

D. Suresh

19P31A04K7

In the partial fulfilment of the requirements for the award of Degree of Bachelor of technology in ELECTRONICS AND COMMUNICATION ENGINEERING. It is a record of bonafide work carried out by his under the esteemed guidance and supervision of Dr. D. Kishore professor & HOD during the academic year 2022-2023.

Projett Guille Ba

Dr. D. Kishore, M.Tech, Ph D Professor & HOD E.C.E Department nead of the bepartment

Dr. D. Kishore, M.Tech, Ph.D Professor E.C.E Department

DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING



This is to certify that technical project part-II report titled

A SMART ACCESS CONTROL FOR RESTRICTED BUILDINGS USING VEHICLE NUMBER PLATE RECOGNITION SYSTEM

Being submitted by

P. Madhu 19P31A04N8

P. Sai Lakshmi 20P35A0432

T. Lakshmi srisai 19P31A04O5

A. Kiran Kumar 19P31A04J3

In the partial fulfilment of the requirements for the award of Degree of Bachelor of technology in ELECTRONICS AND COMMUNICATION ENGINEERING. It is a record of bonafide work carried out by her/his under the esteemed guidance and supervision of Ms. G.Jyothsna during the academic year 2022-2023.

Project Guide

Ms. G.Jyothsna Assistant Professor E.C.E Department Head of the Department

Dr. D. Kishore, M.Tech ,Ph.D Professor E.C.E Department

Signature of the External

CERTIFICATE DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING



This is to certify that technical project part-II report titled

REAL TIME SMART ROOM IMPLEMENTATION BY USING 10T TECHNOLOGY

Being submitted by

T. Indraja lakshmi	19P31A04O6
M. Manish babu	19P31A04M0
A. Mounika	19P31A04J4
M. Triveni mamatha	19P31A04M3

In the partial fulfillment of the requirements for the award of Degree of Bachelor of technology in **ELECTRONICS AND COMMUNICATION ENGINEERING**. It is a record of bonafide work carried out by his under the esteemed guidance and supervision of **Mrs. Malisetty Alekhya** during the academic year 2022-2023.

Project Guide

Mrs. Malisetty Alekhya, M.Tech,(Ph.D)

Assistant Professor

E.C.E Department.

Head of the Department

Dr. D. Kishore, M.Tech, Ph.D.

Professor

E.C.E Department.

Signature of the External Examiner

CERTIFICATE DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING



This is to certify that technical project part-II report titled

"ESP-NOW BASED MASTER AND SLAVE ROBOTIC MANIPULATOR"

Being submitted by

P.V.V.S. Varaprasad chowdary	19P31A04N1
B. Murali krishna	19P31A04K2
J. Hariharan	19P31A04L3
P. Bhanu prasad	19P31A04N

In the partial fulfilment of the requirements for the award of Degree of Bachelor of technology in **ELECTRONICS AND COMMUNICATION ENGINEERING**. It is a record of bonafied work carried out by her under the esteemed guidance and supervision of Mrs.S.S.V. Kiranmayi during the academic year 2022-2023.

Project Guide

Mrs.S.S.V. Kiranmayi Assistant Professor E.C.E Department Head of the Department
Dr. D. Kishore, M.Tech ,Ph.D
Professor
E.C.E Department

DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING



This is to certify that technical project part-II report titled

"MECANUM WHEEL BASED MOBILE PLATFORM USING PEER TO PEER COMMUNICATION"

Being submitted by

B. Swathi	19P31A04K0
V. Nagababu	19P31A04O7
D.V.S. Sai Teja	19P31A04K6
N.V.V.S. Sai Kumar	19P31A04M7

In the partial fulfillment of the requirements for the award of Degree of Bachelor of technology in ELECTRONICS AND COMMUNICATION ENGINEERING. It is a record of bonafide work carried out by her/his under the esteemed guidance and supervision of Mr.Y.D.Chandra Mouli during the academic year 2022-2023.

Project Guide

Mr.Y.D. Chandra Mouli, M. Tech(Ph. D)

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E.C.E Department

Head of the Department

Dr. D. Kishore, M. Tech , Ph.D

Professor

E.C.E Department

Sign of the External Examiner

DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING



This is to Certify that Technical Project Part-II Report Titled

"COAL MINE SAFETY USING IOT"

Being submitted by

M.Surya Chandrika 19P31A04M4

C.Kalyani 19P35A04K5

A.Swathi 19P35A04J5

M.Sandeep 19P31A04M2

In the partial fulfilment of the requirements for the award of Degree of Bachelor of technology in **ELECTRONICS AND COMMUNICATION ENGINEERING**. It is a record of bonafide work carried out by her under the esteemed guidance and supervision of Ms.Burri.Roja, during the academic year 2022-2023.

Project Guide

Ms.Burri.Roja,M.Tech, Assistant Professor E.C.E Department Head of the Department Dr.D.Kishore, M.Tech, Ph.D Professor E.C.E Department

DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING



This is to certify that technical project part-II report titled

"DESIGN OF GYROSCOPE CONTROL 6-6 STEWART

PLATFORM"

Being submitted by

P. SATYA GOWRI 19P31A04N5

P. SURESH 19P31A04M9

A. SAI SAHITYA 19P31A04J6

CH. VENKATA RAMYA 19P31A04K4

In the partial fulfilment of the requirements for the award of Degree of Bachelor of Technology in **ELECTRONICS AND COMMUNICATION ENGINEERING**. It is a record of bonafide work carried out by her under the esteemed guidance and supervision of **Dr. A. B. Siddique** for the academic year 2022-2023.

Project Guide

Dr. A. B. Siddique

Assistant Professor

E.C.E Department

Head of the Bepartment

Dr. D. Kishore, M.Tech, Ph.D

Associate Professor

E.C.E Department

EXTERNAL EXAMINER

DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING



This is to certify that technical project part-II report titled

FRACTIONAL ORDER JACOBI FOURIER MOMENTS FOR IMAGE RECONSTRUCTION

Being submitted by

K. Pavani	19P31A04L6
Y.V.S. Chandra Sekhar	19P31A04P0
P.S.N. Devi Mounika	19P31A04N0
T. Srikanth	19P31A04O3

In the partial fulfilment of the requirements for the award of Degree of Bachelor of technology in **ELECTRONICS AND COMMUNICATION ENGINEERING**. It is a record of bonafide work carried out by us under the esteemed guidance and supervision of Mr.Sanipini Venkata Kiran during the academic year 2022-2023.

Project Guide

Mr.Sanipini Venkata Kiran Associate Professor E.C.E Department Dr. D. Kishore, M. Tech, Ph.D.
Professor & HOD
E.C.E Department

CERTIFICATE DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING



This is to certify that technical project part-II report titled

MULTI BAND COMPACT MICROSTRIP PATCH ANTENNA FOR AIRBORNE AND SATELLITE APPLICATIONS

Being submitted by

In the partial fulfilment of the requirements for the award of Degree of Bachelor of technology in ELECTRONICS AND COMMUNICATION ENGINEERING. It is a record of bonafide work carried out by his under the esteemed guidance and supervision of Mr.K.L.V.Prasad during the academic year 2022- 2023.

Project Guide KW Prall

Mr .K.L.V.Prasad , M.Tech., (Ph.D.)

Sr. Assistant Professor

E.C.E Department

Head of the Department

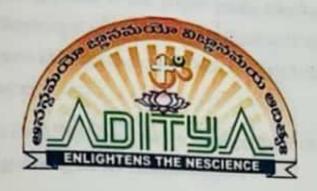
Dr. D. Kishore, M.Tech ., Ph.D

Professor

E.C.E Department

Signature of the External Examiner

DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING



This is to certify that technical project part-II report titled

"IOT BASED ANDROID APPLICATION FOR VEHICLE PARKING SLOT DETECTION"

Being submitted by

G.Jaya Sree Vyshnavi	19P31A04L0
Y.Ramya Harika	19P31A04O9
B.Anusha	19P31A04J9
S.Ramesh	19P31A04O1

In the partial fulfilment of the requirements for the award of Degree of Bachelor of technology in **ELECTRONICS AND COMMUNICATION ENGINEERING**. It is a record of bonafide work carried out by her/his under the esteemed guidance and supervision of Mrs.Sneha M Joseph during the academic year 2022-2023.

Project Guide

Mrs.Sneha M Joseph, M.Tech,(Ph.D) Assistant Professor E.C.E Department Head of the Department

Dr. D. Kishore, M.Tech ,Ph.D Professor E.C.E Department

DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING



This is to certify that technical project part-II report titled

"IOT BASED MANHOLE DETECTION AND MONITORING SYSTEM"

Being submitted by

B. Pavani Lakshmi 19P31A04N3

M. Posi Lakshmi 19P31A04M6

B. Kasi Vishwanath 19P31A04K3

G. Manikanta 20P35A0434

In the partial fulfilment of the requirements for the award of Degree of Bachelor of technologyin ELECTRONICS AND COMMUNICATION ENGINEERING. It is a record of bonafide work carried out by her/his under the esteemed guidance and supervision of Mr. K. Venkata Ramana during the academic year 2022-2023.

Project Guide

Mr .K. Venkata Ramana, M.Tech,(Ph.D) Assistant Professor E.C.E Department Head of the Department

Dr. D. Kishore, M.Tech ,Ph.D Professor E.C. E Department

CERTIFICATE DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING



"SMART MONITORING SYSTEM IN AQUACULTURE"

Being submitted by

M. Nagendra 19P31A04M5
A. Dhanumjaya 20P35A0427
Y. Srinu 19P31A04P2
G. Subash 19P31A04L2

In the partial fulfilment of the requirements for the award of Degree of Bachelor of Technology in **ELECTRONICS AND COMMUNICATION ENGINEERING.** It is a record of bonafied work carried out by him under the esteemed guidance and supervision of Mr. T.Anjaiah during the academic year 2022-2023.

Project Guide
Mr. T.Anjaiah
Associate Professor
E.C.E Department

Head of the Department
Dr. D. Kishore, M.Tech ,Ph.D
Professor
E.C.E Department

Signature of the External

CERTIFICATE DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING



This is to certify that technical project part-II report titled

PLANT DISEASE DETECTION USING EFFICIENTNETV2 & CROP RECOMMENDATION USING RANDOM FOREST ALGORITHM

Being submitted by

S. Nivas Reddy V. Sai Naga Lakshmi M. Sai Rakesh	19P31A04O0
	20P35A0433
	20P35A0431
	19P31A04O2
S. Nagababu	17101111

In the partial fulfilment of the requirements for the award of Degree of Bachelor of technology in **ELECTRONICS AND COMMUNICATION ENGINEERING**. It is a record of bonafied work carried out by his under the esteemed guidance and supervision of Dr. R. Anil Kumar during the academic year 2022-2023.

Project Guide

Dr. R. Anil Kumar, M. Tech, Ph.D

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E.C.E Department

Head of the Department

Dr. D. Kishore, M.Tech ,Ph.D

Professor

E.C.E Department

Signature of the External

DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING



This is to certify that technical project part-II report titled

CONTENT BASED IMAGE RETRIEVAL USING QUATERNION LEGENDRE FOURIER MOMENTS

Being submitted by

K. Durga Satish

20P35A0430

D. Yaswanthi

19P31A04K9

M. Chandra Sekhar

19P31A04M1

In the partial fulfilment of the requirements for the award of Degree of Bachelor of technology in **ELECTRONICS AND COMMUNICATION ENGINEERING**. It is a record of bonafide work carried out by his under the esteemed guidance and supervision of Dr. D. Kishore during the academic year 2022 – 2023.

Dr. D. Kishore, M.Tech. Ph.D Professor

E.C.E Department

Dr. D. Kishore, M.Tech, Ph.D Professor E.C.E Department

Sign of the External