

VIDYA JYOTHI INSTITUTE OF TECHNOLOGY

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(Aziz Nagar, C.B.Post, Hyderabad -500075)

Department of Electronics and Communication Engineering



CERTIFICATE

This is to certify that the project report titled “Smart IOT Device for Women Safety” is being submitted by **B.VINITHA REDDY(16911A0405),D.PRIYANKA(16911A0413),G.SHASHI KUMAR(16911A0419)** of B.tech IV- II semester of *Electronics & Communication Engineering* is a record bonafide work carried out by them. The results embodied in this report have not been submitted to any other University for the award of any degree.

INTERNAL GUIDE,

Mr. V.G.Siva kumar

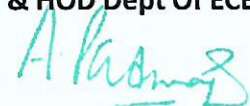
(Assoc.Professor Dept Of ECE)

HEAD OF THE DEPARTMENT,


Dr. K. Vasanth

(Professor & HOD Dept Of ECE)

EXTERNAL EXAMINER,

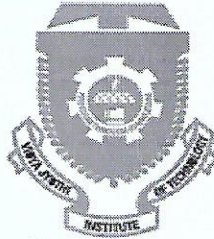


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Vidya Jyothi Institute of Technology
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DEPARTMENT OF ELECTRONICS & COMMUNICATION ENGINEERING

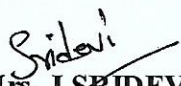


CERTIFICATE

This is to certify that the project work entitled “**Arduino based water quality and pH monitoring system**” is bonafide work carried out by **Mr. P. Shashank (16911A0446), Ms. P. Niharika (16911A0449), Mr. B. Sathweek (16911A0406) and Mr. M. Pavan (16911A0440)** in partial fulfilment of the requirements for the award of degree of **BACHELOR OF TECHNOLOGY IN ELECTRONICS AND COMMUNICATION ENGINEERING** to be awarded by the **JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY, Hyderabad**, under our guidance and supervision.

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Internal Guide


Mrs. J. SRIDEVI

Assistant Professor

Dept. of ECE

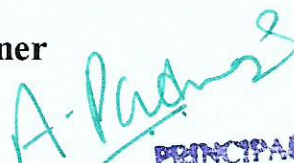

Head of the Department

Dr. K VASANTH

Professor and HOD

Dept. of ECE

External Examiner


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VIDYA JYOTHI INSTITUTE OF TECHNOLOGY

Department of Electronics and Communication Engineering

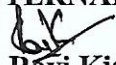


CERTIFICATE

This is to certify that the project work entitled "PROCESS ENHANCEMENT USING FPGA ON R-Pi" is a bonafide work carried out by **S.SUPRIYA (16911A0454)**, **J.BHARGAV(16911A0424)**, **M.VENKATESH (16911A0438)**, **B.MEGHANA (16911A0407)** in partial fulfilment of the requirements for the award of degree of **BACHELOR OF TECHNOLOGY IN ELECTRONICS AND COMMUNICATION ENGINEERING** by the **JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY, HYDERABAD**, under the guidance and supervision.

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INTERNAL GUIDE


G. Ravi Kishore
(Asso. Professor Dept Of ECE)

Head of the department


Dr. K. Vasanth
(Professor & HOD Of Dept)

EXTERNAL EXAMINER

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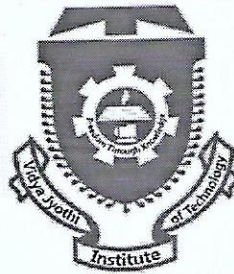
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Department of Electronics and Communication Engineering



CERTIFICATE

This is to certify that the project work entitled “VOICE INTERPRETED SMART HOME APPLIANCES” is a bonafide work carried out by N. Sreeja (16911A0444), B. Sowmya(16911A0409), Sagar Gupta (17915A0453) , P. Sharath Chandra(16911A0447)in

partial fulfilment of the requirements for the award of degree of **BACHELOR OF TECHNOLOGY IN ELECTRONICS AND COMMUNICATION ENGINEERING** by the **JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY**, Hyderabad, under our guidance and supervision.

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[Signature]
INTERNAL SUPERVISOR

Department of ECE

VJIT, Hyderabad

[Signature]
HEAD OF THE DEPARTMENT

Department of ECE

VJIT, Hyderabad

[Signature]
EXTERNAL EXAMINER

[Signature]

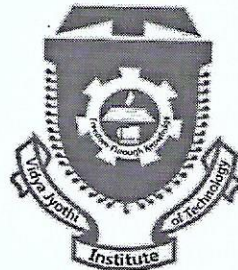
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Vidya Jyothi Institute of Technology
Minnyanagar (VIII), C. B. Post
Hyderabad-73.

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Department of Electronics and Communication Engineering



CERTIFICATE

This is to certify that the project work entitled “SMART GATE SYSTEM USING BLUETOOTH” is a bonafide work carried out by Ch.Jyothi Kiranmai (16911A0411), G. Shesha Sai(16911A04D0), K. Mamatha (17915A0402) in partial fulfilment of the requirements for the award of degree of **BACHELOR OF TECHNOLOGY IN ELECTRONICS AND COMMUNICATION ENGINEERING** by the **JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY**, Hyderabad, under our guidance and supervision.

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INTERNAL SUPERVISOR

Department of ECE

VJIT, Hyderabad

HEAD OF THE DEPARTMENT

Department of ECE

VJIT, Hyderabad

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Nimmayyasaagar (Vill), C B. Road
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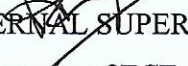
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Department of Electrical and Communication Engineering




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Department of ECE
VJIT, Hyderabad


HEAD OF THE DEPARTMENT
Department of ECE
VJIT, Hyderabad

EXTERNAL EXAMINER


PRINCIPAL
Vidya Jyothi Institute of Technology
Himayatnagar (VIII), C. B. Park
Hyderabad-73.

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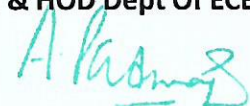
(Assoc.Professor Dept Of ECE)

HEAD OF THE DEPARTMENT,


Dr. K. Vasanth

(Professor & HOD Dept Of ECE)

EXTERNAL EXAMINER,



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Himayyapuram (VIII), C. B. Post
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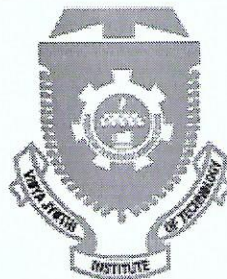
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(Aziz Nagar, C.B.Post, Hyderabad -500075)


Department of Electronics and Communication Engineering




CERTIFICATE

This is to certify that the project report titled "Cricket Score Forecaster Using Machine Learning" is being submitted by G.VAISHNAVI(16911A0415), P.AMULYA (16911A0451), of B.tech IV- II semester of *Electronics & Communication Engineering* is a record bonafide work carried out by them. The results embodied in this report have not been submitted to any other University for the award of any degree.

INTERNAL GUIDE,


Mrs. A. Chaitanya Lakshmi
(Asst.Professor Dept Of ECE)

HEAD OF THE DEPARTMENT,


Dr. K. Vasanth
(Professor & HOD Dept of ECE)

EXTERNAL EXAMINER,



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Department of Electronics and Communication Engineering



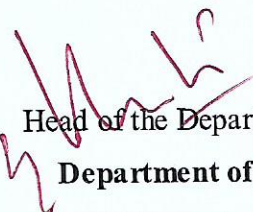
VIDYA JYOTHI
Institute Of Technology

CERTIFICATE

This is to certify that the project work entitled “ENERGY EFFICIENCY OPTIMIZATION FOR DEVICE-TO-DEVICE COMMUNICATIONS IN 5G NETWORKS” is a bonafide work carried out by E.SREENATH(16911A04H4), ZAKEER MOHAMMAD(15911A0460), RAMGIRI VISHAL(16911A04G5) in partial fulfillment of the requirements for the award of degree of **Bachelor of Technology in Electronics and Communication Engineering** by the **JAWAHARLAL NEHRU TECHNOLOGY UNIVERSITY, Hyderabad**, under our guidance and supervision.

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Department of ECE
VJIT, Hyderabad

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Himayatnagar (VIII), C B. Post
Hyderabad 78

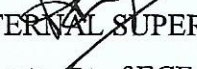
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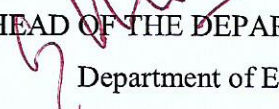


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VJIT, Hyderabad


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EXTERNAL EXAMINER


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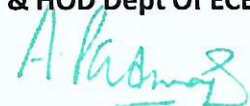
(Assoc.Professor Dept Of ECE)

HEAD OF THE DEPARTMENT,


Dr. K. Vasanth

(Professor & HOD Dept Of ECE)

EXTERNAL EXAMINER,



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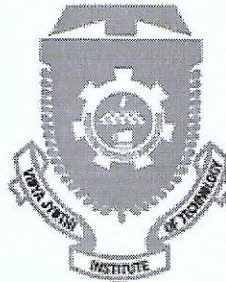
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Department of Electronics and Communication Engineering



CERTIFICATE

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INTERNAL GUIDE

Dr. P. Ganesan

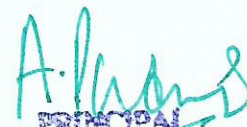
(Professor Dept Of ECE)


HEAD OF THE DEPARTMENT

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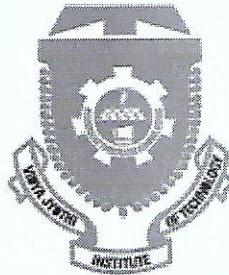
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Himayatnagar (VIII), C. B. Post

2019 - 2020


VIDYA JYOTHI INSTITUTE OF TECHNOLOGY (AUTONOMOUS)
DEPARTMENT OF ELECTRONICS & COMMUNICATION ENGINEERING

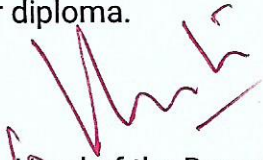


CERTIFICATE

This is to certify that the project work entitled " IOT WEATHER REPORTING SYSTEM USING RASPBERRY PI 3 " is a bonafide work carried out by P. ANVESH(16911A0450),G.JAYASREE(16911A0421),MD.AJMALAHMED(16911 A0441), R.CHANDULAL (17915A0406) in partial fulfilment of the requirements for the award of degree of BACHELOR OF TECHNOLOGY IN ELECTRONICS AND COMMUNICATION ENGINEERING by the JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY, Hyderabad, under our guidance and supervision.

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Internal Guide
Dept. of ECE


Head of the Department
Dept. of ECE



External Examiner

PRINCIPAL
Vidya Jyothi Institute of Technology
Himayatnagar (VIII), C. B. Park
Hyderabad-73.

VIDYA JYOTHI INSTITUTE OF TECHNOLOGY

(An Autonomous institution)

(Permanently Affiliated to JNTUH, NAAC accredited, Hyderabad)

Department of Electronics and Communication

Engineering



CERTIFICATE

This is to certify that the project work entitled "HEALTH CHECK OF DEVICES ON SD-WAN FABRIC" is a bonafide work carried out by Mr.H.E.Tarun (16911A0422) in partial fulfilment of the requirements for the award of degree of **BACHELOR OF TECHNOLOGY IN ELECTRONICS AND COMMUNICATION ENGINEERING** by the **JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY**, Hyderabad, under our guidance and supervision. The results embodied in this report have not been submitted to any other university or institute for the award of any degree or diploma.



INTERNAL GUIDE

Mr.Karna Lakshmi Lokesh

(Asst.Professor Dept of ECE)


HEAD OF THE DEPARTMENT

Dr.K.Vasanth

(Professor and HOD Dept of ECE)

EXTERNAL EXAMINER


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Vidya Jyothi Institute of Technology

VIDYA JYOTHI INSTITUTE OF TECHNOLOGY

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G. Ravi Kishore
(Asso. Professor Dept Of ECE)

Head of the department


Dr. K. Vasanth
(Professor & HOD Of Dept)

EXTERNAL EXAMINER

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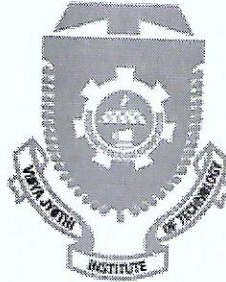
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(Aziz Nagar, C.B.Post, Hyderabad -500075)

Department of Electronics and Communication Engineering



CERTIFICATE

This is to certify that the project report titled **“Design and Fabrication of Microstrip Patch Antenna for WLAN Applications”** is being submitted by **K.AKHIL ANAND (17915A0426), V.SAIRAM (16911A0N4), P.ROHITH (16911A04M6), K.NAGARJUNA (16911A04K7)** of B.tech IV- II semester of *Electronics & Communication Engineering* is a record bonafide work carried out by them. The results embodied in this report have not been submitted to any other University for the award of any degree.

INTERNAL GUIDE

Mr. G.Sreenivasa Rao
(Assoc.Professor Dept of ECE)

HEAD OF THE DEPARTMENT

Dr. K. Vasanth
(Professor & HOD Dept of ECE)

EXTERNAL EXAMINER

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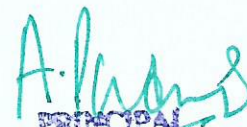
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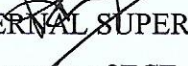
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INTERNAL SUPERVISOR
Department of ECE
VJIT, Hyderabad


HEAD OF THE DEPARTMENT
Department of ECE
VJIT, Hyderabad

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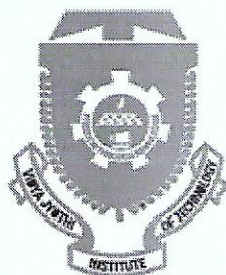

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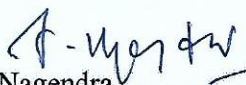
Department of Electronics and Communication Engineering




CERTIFICATE

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INTERNAL GUIDE,


Mr.G.Nagendra
(Asst.Professor Dept Of ECE)

HEAD OF
THE DEPARTMENT,


Dr. K. Vasanth
(Professor & HOD Dept of ECE)

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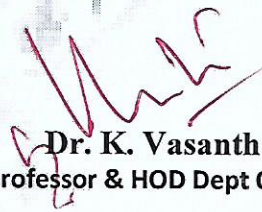
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This is to certify that the project report titled **“DIGITIZING DEVELOPMENT ENGINEER DISCUSSIONS”** is being submitted by **Ms. KONNOJU VAISHNAVI (16911A0434)** of B.tech IV- II semester of *Electronics & Communication Engineering* is a record bonafide work carried out by her. The results embodied in this report have not been submitted to any other University for the award of any degree.


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Dr. K. Vasanth
(Professor & HOD Dept Of ECE)

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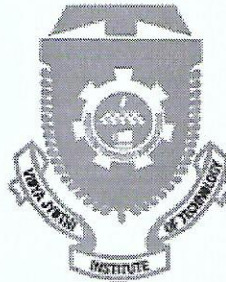

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Department of Electronics and Communication Engineering



CERTIFICATE

This is to certify that the project report titled **“Digital Notice Board System by Using Raspberrypi”** is being submitted by **G. NAVEEN (16911A0420), K. SHIVANI (16911A0427), K. MOUNISH (16911A0429), K. NANDINI (16911A0436)** of B.tech IV - II semester of *Electronics & Communication Engineering* is a record bonafide work carried out by them. The results embodied in this report have not been submitted to any other University for the award of any degree.


INTERNAL GUIDE

Dr. P. Ganesan

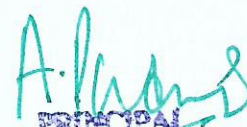
(Professor Dept Of ECE)


HEAD OF THE DEPARTMENT

Dr. K. Vasanth

(Professor & HOD Dept Of ECE)

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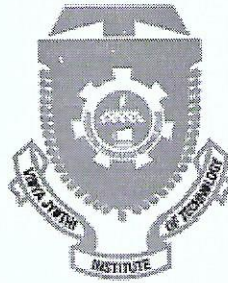

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Department of Electronics and Communication Engineering



CERTIFICATE

This is to certify that the project report titled **“Automatic accident detection and remote alarm device”** is being submitted by **M.Kishore kumar(16911A0437), M.Bharath(16911A0439), V.Sindhuja (16911A0459)** of B.tech IV- I semester of *Electronics & Communication Engineering* is a record of bonafide work carried out by them. The results embodied in this report have not been submitted to any other University for the award of any degree.


INTERNAL GUIDE,

Mr. CH. Sandeep

(Asst.Professor, Dept Of ECE)


HEAD OF THE DEPARTMENT,

Dr. K. Vasanth

(Professor & HOD Dept Of ECE)

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Himayatnagar (VIII), C. B. Post
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Department of Electronics and Communication Engineering



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G. Ravi Kishore
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Head of the department


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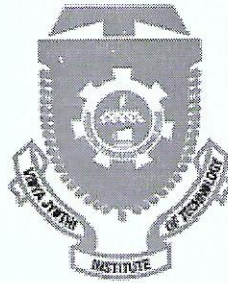
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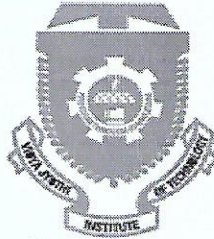
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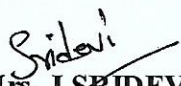


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Mrs. J. SRIDEVI

Assistant Professor

Dept. of ECE

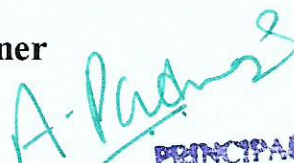

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Dr. K VASANTH

Professor and HOD

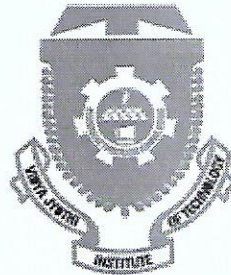
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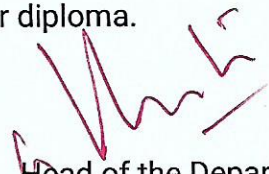


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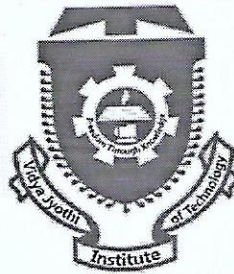
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Department of Electronics and Communication Engineering



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INTERNAL SUPERVISOR

Department of ECE

VJIT, Hyderabad

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HEAD OF THE DEPARTMENT

Department of ECE

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EXTERNAL EXAMINER

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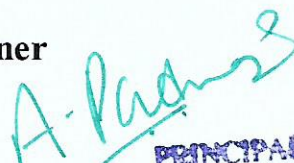

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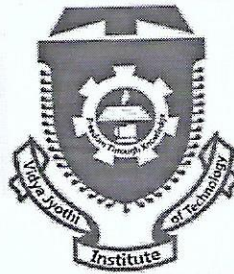

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INTERNAL SUPERVISOR

Department of ECE

VJIT, Hyderabad

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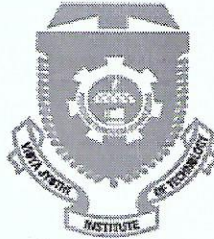
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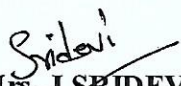


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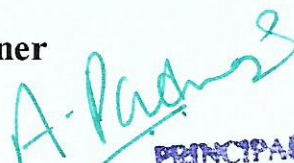

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Dr. K VASANTH

Professor and HOD

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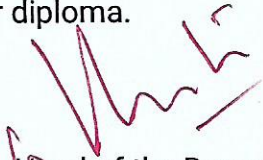


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External Examiner

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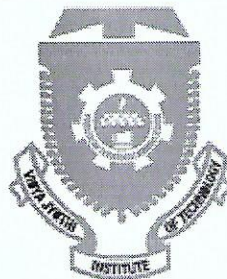
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Department of Electronics and Communication Engineering




CERTIFICATE

This is to certify that the project report titled "Cricket Score Forecaster Using Machine Learning" is being submitted by G.VAISHNAVI(16911A0415), P.AMULYA (16911A0451), of B.tech IV- II semester of *Electronics & Communication Engineering* is a record bonafide work carried out by them. The results embodied in this report have not been submitted to any other University for the award of any degree.

INTERNAL GUIDE,


Mrs. A. Chaitanya Lakshmi
(Asst.Professor Dept Of ECE)

HEAD OF THE DEPARTMENT,


Dr. K. Vasanth
(Professor & HOD Dept of ECE)

EXTERNAL EXAMINER,



VIDYA JYOTHI INSTITUTE OF TECHNOLOGY

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INTERNAL GUIDE



G. Ravi Kishore
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Head of the department


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EXTERNAL EXAMINER

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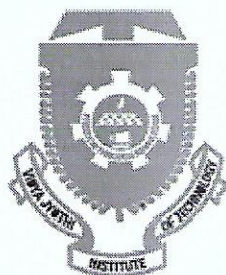

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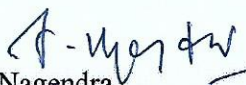
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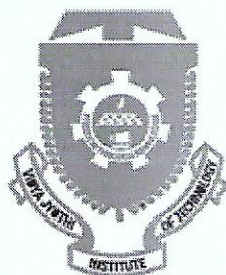

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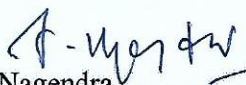
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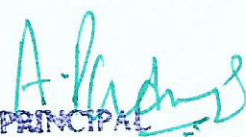
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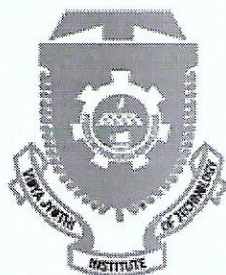

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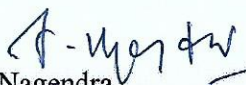
Department of Electronics and Communication Engineering




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This is to certify that the project report titled **“IoT Air and Sound Pollution Monitoring System”** is being submitted by **T.Praveen Reddy (16911A0455)**, **U.Naveen (16911A0457)**, **K.Anirudh Chowdhary (16911A0432)**, **V.Srikanth (16911A0458)** of B.tech IV- II semester of *Electronics & Communication Engineering* is a record bonafide work carried out by them. The results embodied in this report have not been submitted to any other University for the award of any degree.


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Mr.G.Nagendra
(Asst.Professor Dept Of ECE)

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THE DEPARTMENT,


Dr. K. Vasanth
(Professor & HOD Dept of ECE)

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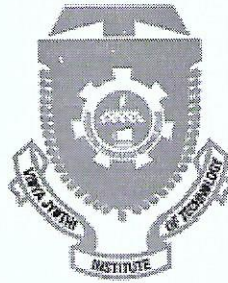

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Department of Electronics and Communication Engineering



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This is to certify that the project report titled **“Automatic accident detection and remote alarm device”** is being submitted by **M.Kishore kumar(16911A0437), M.Bharath(16911A0439), V.Sindhuja (16911A0459)** of B.tech IV- I semester of *Electronics & Communication Engineering* is a record of bonafide work carried out by them. The results embodied in this report have not been submitted to any other University for the award of any degree.


INTERNAL GUIDE,

Mr. CH. Sandeep

(Asst.Professor, Dept Of ECE)


HEAD OF THE DEPARTMENT,

Dr. K. Vasanth

(Professor & HOD Dept Of ECE)

EXTERNAL EXAMINER


PRINCIPAL

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(Aziz Nagar, C.B.Post, Hyderabad -500075)

Department of Electronics and Communication Engineering



CERTIFICATE

This is to certify that the project report titled **DIABETES PREDICTION USING DIFFERENT MACHINE LEARNING TECHNIQUES** is being submitted by **GAYATHRI. M (16911A0492), CH D. VIJAY KUMAR (16911A0466), B. GIRISH (16911A0463), CH VENKAT TEJA (16911A0467)** in Bachelor of Technology, IV- II semester of *Electronics & Communication Engineering* is a record bona fide work carried out by them. The results embodied in this report have not been submitted to any other University for the award of any degree.

INTERNAL GUIDE

MR. S. UPENDRA

(Assoc. Professor, Dept of ECE)

HEAD OF THE DEPARTMENT

DR. K. VASANTH

(Professor, Dept of ECE)

EXTERNAL EXAMINER

A. Prasanna

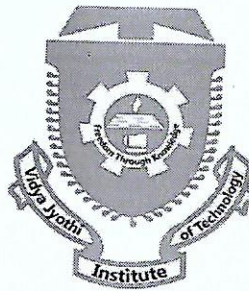
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Hyderabad-73.

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INTERNAL SUPERVISOR
Mrs. K. Pavani
Department of ECE
VJIT, Hyderabad


HEAD OF THE DEPARTMENT
Mr. K. Vasanth
Department of ECE
VJIT, Hyderabad

External Examiner

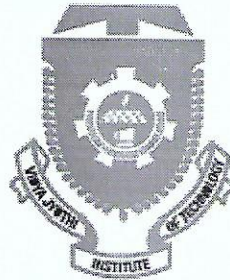
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Department of Electronics and Communication Engineering



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This is to certify that the project report titled "GARBAGE COLLECTION AND MONITORING ROBOT USING WIRELESS COMMUNICATION" is being submitted by K.DIVYAVANI (17915A0412), THOTA ARUN (16911A04B4), BOINI VARUN (16911A0465), PETER MOSHE (17915A0409) of B.tech IV- II semester of *Electronics & Communication Engineering* is a record bonafide work carried out by them. The results embodied in this report have not been submitted to any other University for the award of any degree.

INTERNAL GUIDE,

Dr. K.Vasanth
(Professor & HOD Dept Of ECE)

HEAD OF THE DEPARTMENT,

Dr.K. Vasanth
(Professor & HOD Dept Of ECE)

EXTERNAL EXAMINER,

A. Vasanth

PRINCIPAL

Vidya Jyothi Institute of Technology
Himayatnagar (VIII), C. B. Post
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(Assoc. Professor, Dept of ECE)

HEAD OF THE DEPARTMENT

DR. K. VASANTH

(Professor, Dept of ECE)

EXTERNAL EXAMINER

A. Prasanna

PRINCIPAL
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Hyderabad-73.

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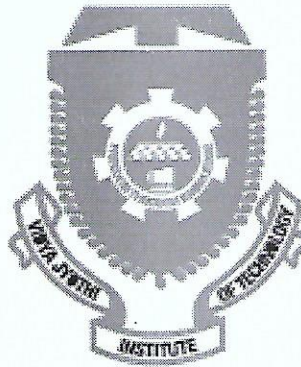
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This is to certify that the project entitled "ELECTRONIC PROTECTION FOR EXAM PAPER LEAKAGE", being submitted by D. PRANITHA (16911A0469), D.SUPRIYA (16911A0468), M. RAHUL YADAV (16911A0486), and V. SHRAVAN REDDY (16911A04B8) in partial fulfillment of the requirements for the award of the Degree of BACHELOR OF TECHNOLOGY in ELECTRONICS AND COMMUNICATION ENGINEERING by the JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY, Hyderabad under our guidance and supervision. The results embodied in this project report have not been submitted to any other University or Institute for the award of any Degree or Diploma.

INTERNAL GUIDE

Mrs. E. Supraja
Department of ECE
VJIT, Hyderabad

HEAD OF DEPARTMENT

Mr. K. Vasanth
Department of ECE
VJIT, Hyderabad

EXTERNAL EXAMINER

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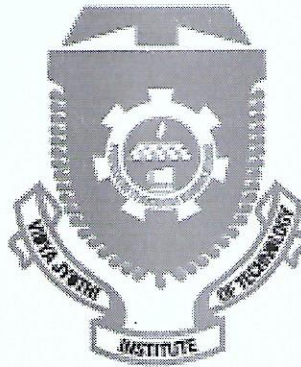
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INTERNAL GUIDE

Mrs. E. Supraja
Department of ECE
VJIT, Hyderabad

HEAD OF DEPARTMENT

Mr. K. Vasanth
Department of ECE
VJIT, Hyderabad

EXTERNAL EXAMINER

PRINCIPAL

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This is to certify that the project report titled “RASPERRY PI BASED ANTI-THEFT SYSTEM” is being submitted by **KORE SHASHI KUMAR (16911A0480), ERUPUTH NIKHITHA (16911A0470), JETTIGARI RAM PRASAD REDDY (16911A0476), GAYAM YASHWANTH REDDY (16911A0472)** of B.tech IV- 2 semester of *Electronics & Communication Engineering* is a record bonafide work carried out by them. The results embodied in this report have not been submitted to any other University for the award of any degree.

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Mr. S. SARAVANAN
(Asst. Professor Dept of ECE)

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(Professor & HOD Dept of ECE)

EXTERNAL EXAMINER,


PRINCIPAL
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Dr. K. Vasanth
(Professor & HOD Dept of ECE)

EXTERNAL EXAMINER,


PRINCIPAL
Vidya Jyothi Institute of Technology
Himayatnagar (VIII), C. B. Post
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This is to certify that the project report titled “MICROSTRIP PATCH ANTENNA AT 28 GHZ FOR 5G APPLICATIONS” is being submitted by G.Sai Vamshi (16911A0473), S.Shruthi (17915A0414), P.AkshayKumar (16911A04A1), K.Venkatesh (17915A0411) of B.tech IV-II semester of Electronics & Communication Engineering is a record bonafide work carried out by them. The results embodied in this report have not been submitted to any other university or institute for the award of any degree.

INTERNAL GUIDE

Mr.G. Parameswar (PhD)
(Asst.Professor Dept Of ECE)

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Dr. K. Vasanth
(Professor & HOD Dept of ECE)

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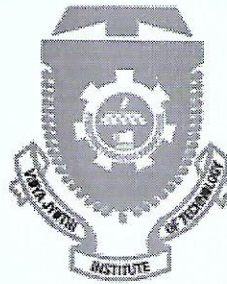
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This is to certify that the project report titled “COLOUR DETECTION AND IDENTIFICATION FOR ROBOT DIRECTION CONTROL USING IMAGE PROCESSING” is being submitted by M. AJAY KUMAR (16911A0491), S. FIRDOUS AFREEN (16911A04A9) , G. BHAGAVAN (16911A0474), K. NAVA SURYA REDDY (16911A0479) of B.tech IV- I semester of *Electronics & Communication Engineering* is a record bonafide work carried out by them. The results embodied in this report have not been submitted to any other University for the award of any degree.

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Mr. P. Ganeshan
(Professor Dept Of ECE)

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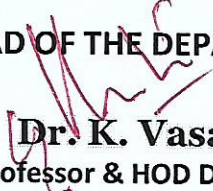
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This is to certify that the project report titled **“Futuristic Design Of Breathe To Voice Conversion Technology For Dumb People”** is being submitted by **P.NASREEN (16911A0496), J.SUDHA DEVI (16911A0475), M.ANVITHA ERLINDA (16911A0483)** of B.tech IV- I semester of *Electronics & Communication Engineering* is a record bonafide work carried out by them. The results embodied in this report have not been submitted to any other University for the award of any degree.


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Mr. S. Pradeep Kumar Reddy
(Asst. Professor Dept Of ECE)

HEAD OF THE DEPARTMENT,


Dr. K. Vasanth
(Professor & HOD Dept Of ECE)

EXTERNAL EXAMINER,


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Mr. S. SARAVANAN
(Asst. Professor Dept of ECE)

HEAD OF THE DEPARTMENT,
Dr. K. Vasanth
(Professor & HOD Dept of ECE)

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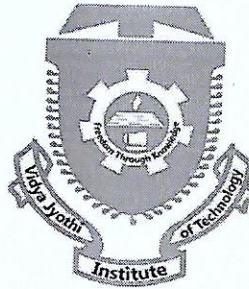

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Hyderabad-75

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Mrs. K. Pavani
Department of ECE
VJIT, Hyderabad


HEAD OF THE DEPARTMENT
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Department of ECE
VJIT, Hyderabad

External Examiner

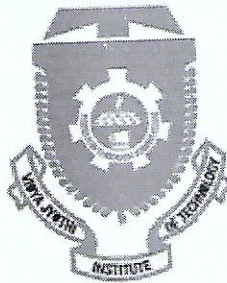
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Department of Electronics and Communication Engineering



CERTIFICATE

This is to certify that the project report titled "IMAGE PROCEESSING BASED FIRE DETECTION USING RASPBERRY PI" is being submitted by Mr. Kaipa Uday Kumar Reddy (16911A0478), Mr. Lambadi Santhosh (16911A0482) and, Mr.Mangalagiri Phani Sai (16911A0487) of B.tech IV-II semester of *Electronics & Communication Engineering* is a record bonafide work carried out by them. The results embodied in this report have not been submitted to any other University for the award of any degree.

INTERNAL GUIDE,

Mrs. k .Tarangini,
(Asst.Professor Dept Of ECE)

HEAD OF THE DEPARTMENT,

Dr. K. Vasanth
(Professor & HOD Dept Of ECE)

EXTERNAL EXAMINER

A. Prasanna

PRINCIPAL
Vidya Jyothi Institute of Technology
Mimamyanagar (VIII), C. B. Post
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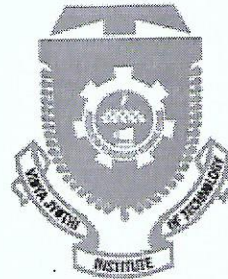

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Department of Electronics and Communication Engineering




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This is to certify that the project report titled “**Ultrasonic Blind Stick with GPS**” is being submitted by **RACHA GANESH (16911A04A4), M.SAI KUMAR REDDY (16911A0489), MADHU KUNCHALA (16911A0481), P.N.PRANAY (16911A0494)** of B.tech IV- 2 semester of *Electronics & Communication Engineering* is a record bonafide work carried out by them. The results embodied in this report have not been submitted to any other University for the award of any degree.


INTERNAL GUIDE,
Mr. G.RAVIKUMAR
(Asst.Professor Dept. Of ECE)


HEAD OF THE DEPARTMENT,
Dr. K. Vasanth
(Professor & HOD Dept Of ECE)

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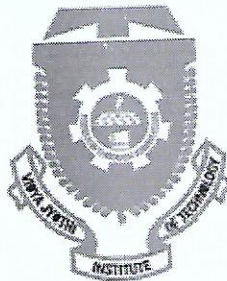

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This is to certify that the project report titled "IMAGE PROCEESSING BASED FIRE DETECTION USING RASPBERRY PI" is being submitted by Mr. Kaipa Uday Kumar Reddy (16911A0478), Mr. Lambadi Santhosh (16911A0482) and, Mr.Mangalagiri Phani Sai (16911A0487) of B.tech IV-II semester of *Electronics & Communication Engineering* is a record bonafide work carried out by them. The results embodied in this report have not been submitted to any other University for the award of any degree.

INTERNAL GUIDE,

Mrs. k .Tarangini,
(Asst.Professor Dept Of ECE)

HEAD OF THE DEPARTMENT,

Dr. K. Vasanth
(Professor & HOD Dept Of ECE)

EXTERNAL EXAMINER

A. Prasanna

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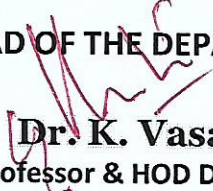
CERTIFICATE

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INTERNAL GUIDE,


Mr. S. Pradeep Kumar Reddy
(Asst. Professor Dept Of ECE)

HEAD OF THE DEPARTMENT,


Dr. K. Vasanth
(Professor & HOD Dept Of ECE)

EXTERNAL EXAMINER,

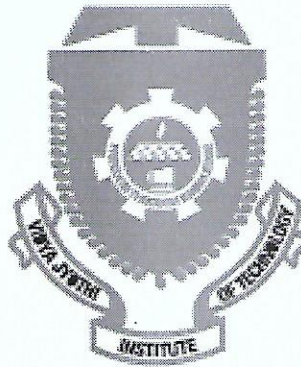

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CERTIFICATE

This is to certify that the project entitled "ELECTRONIC PROTECTION FOR EXAM PAPER LEAKAGE", being submitted by D. PRANITHA (16911A0469), D.SUPRIYA (16911A0468), M. RAHUL YADAV (16911A0486), and V. SHRAVAN REDDY (16911A04B8) in partial fulfillment of the requirements for the award of the Degree of BACHELOR OF TECHNOLOGY in ELECTRONICS AND COMMUNICATION ENGINEERING by the JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY, Hyderabad under our guidance and supervision. The results embodied in this project report have not been submitted to any other University or Institute for the award of any Degree or Diploma.

INTERNAL GUIDE

Mrs. E. Supraja
Department of ECE
VJIT, Hyderabad

HEAD OF DEPARTMENT

Mr. K. Vasanth
Department of ECE
VJIT, Hyderabad

EXTERNAL EXAMINER

PRINCIPAL

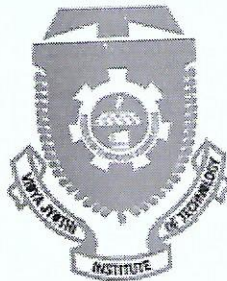
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(Asst.Professor Dept Of ECE)

HEAD OF THE DEPARTMENT,

Dr. K. Vasanth
(Professor & HOD Dept Of ECE)

EXTERNAL EXAMINER

A. Prasanna

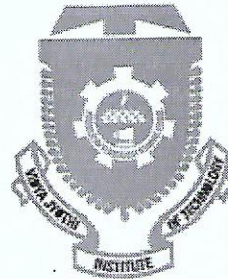
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Department of Electronics and Communication Engineering




CERTIFICATE

This is to certify that the project report titled “**Ultrasonic Blind Stick with GPS**” is being submitted by **RACHA GANESH (16911A04A4), M.SAI KUMAR REDDY (16911A0489), MADHU KUNCHALA (16911A0481), P.N.PRANAY (16911A0494)** of B.tech IV- 2 semester of *Electronics & Communication Engineering* is a record bonafide work carried out by them. The results embodied in this report have not been submitted to any other University for the award of any degree.


INTERNAL GUIDE,
Mr. G.RAVIKUMAR
(Asst.Professor Dept. Of ECE)

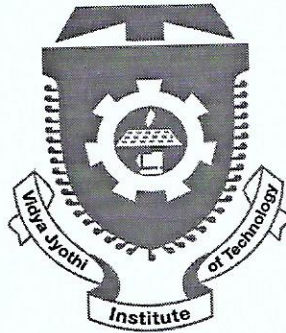

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Dr. K. Vasanth
(Professor & HOD Dept Of ECE)

EXTERNAL EXAMINER,


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Vidya Jyothi Institute of Technology
Himayatnagar (VIII), C.B. Post,
Hyderabad-75

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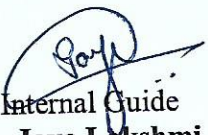
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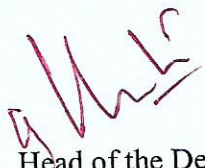


CERTIFICATE


This is to certify that the project work entitled **Hand Gesture Controlled Robot using Arduino** is a bonafide work carried out by **Pavan Kumar Pathepur (16911A0497)**, **Divya Mudireddy (16911A0490)**, **Anand Surya (16911A04A7)**, **Omprakash Siripolu (17915A0413)** in partial fulfilment of the requirements for the award of degree of **BACHELOR OF TECHNOLOGY IN ELECTRONICS AND COMMUNICATION ENGINEERING** by the **JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY, Hyderabad**, under our guidance and supervision.

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Internal Guide
A. Jaya Lakshmi
Associate Professor
Department of Electronics and
Communication Engineering
VJIT, Hyderabad.


Head of the Department
Dr. K. Vasanth
Department of Electronics and
Communication Engineering
VJIT, Hyderabad.

External Examiner


PRINCIPAL
Vidya Jyothi Institute of Technology
Himayath Nagar (V), C. B. Post
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Department of Electronics and Communication Engineering



CERTIFICATE

This is to certify that the project report titled "RAILWAY TRACK CRACK DETECTION" is being submitted by N.BHANU PRAKASH REDDY (16911A0493), P.SUPRAJA(16911A0499), SHASHANK SAURAV(16911A04B0) of B.tech IV- II semester of *Electronics & Communication Engineering* is a record bonafide work carried out by them. The results embodied in this report have not been submitted to any other University for the award of any degree.


INTERNAL GUIDE,

Mr. S. SARVANAN
(Asst.Professor Dept Of ECE)

HEAD OF THE DEPARTMENT,

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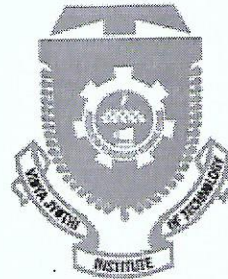

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Mr. G.RAVIKUMAR
(Asst.Professor Dept. Of ECE)


HEAD OF THE DEPARTMENT,
Dr. K. Vasanth
(Professor & HOD Dept Of ECE)

EXTERNAL EXAMINER,


PRINCIPAL
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Himayatnagar (VIII), C.B. Post,
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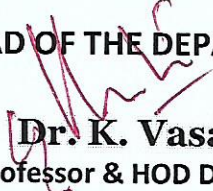
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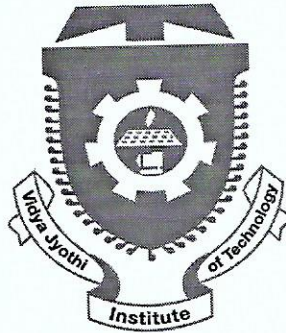

Dr. K. Vasanth
(Professor & HOD Dept Of ECE)

EXTERNAL EXAMINER,


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Aziznagar (VIII), C. B. Post
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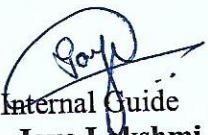
Department of Electronics and Communication Engineering

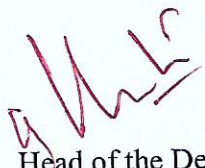


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Internal Guide
A. Jaya Lakshmi
Associate Professor
Department of Electronics and
Communication Engineering
VJIT, Hyderabad.


Head of the Department
Dr. K. Vasanth
Department of Electronics and
Communication Engineering
VJIT, Hyderabad.

External Examiner

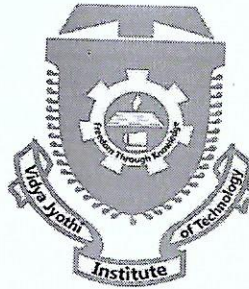

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This is to certify that the project work entitled "AUTOMATIC BILLING IN SHOPPING TROLLEY USING RFID" is being submitted by BODA DEEPIKA (16911A0464), PATLOLLA ANVITHA (16911A0498), KONDA DEEPTHI (16911A0477), GOGULOTH SAI KUMAR (17915A0410) in partial fulfillment of the requirements for the award of degree of BACHELOR OF TECHNOLOGY IN ELECTRONICS AND COMMUNICATION ENGINEERING by the JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY, Hyderabad, under our guidance and supervision. The results embodied in this report have not been submitted to any other university or institute for the award of any degree or Diploma.


INTERNAL SUPERVISOR
Mrs. K. Pavani
Department of ECE
VJIT, Hyderabad


HEAD OF THE DEPARTMENT
Mr. K. Vasanth
Department of ECE
VJIT, Hyderabad

External Examiner

PRINCIPAL
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Dr. K. Vasanth
(Professor & HOD Dept Of ECE)

EXTERNAL EXAMINER,

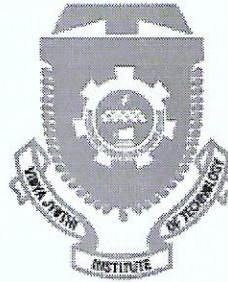

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This is to certify that the project report titled “**Smart Footstep power generation using RFID for charging**” is being submitted by **K.AKHILA (16911A04L2), M.S.M.HUSSAIN(16911A04L7), K.GANESH(17915A0425), G.S AI PRASAD(14911A0472)** of B.tech IV- I semester of *Electronics & Communication Engineering* is a record bonafide work carried out by them. The results embodied in this report have not been submitted to any other University for the award of any degree.


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Mr. G. Ravi Kishore
(Asst.Professor Dept Of ECE)
Dept Of ECE)

HEAD OF THE DEPARTMENT


Dr. K. Vasanth
(Professor & HOD)

EXTERNAL EXAMINER


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CERTIFICATE

This is to certify that the project work entitled "IMPLEMENTATION OF UART PROTOCOL BASED ON FIFO TECHNIQUE USING FIFO" is a bonafied work carried out by V Sravani (17915A0415), S Anusha (15911A0453), R Siva Karthik (16911A04G6), K Sai Teja (16911A04D9), P Pavan (17915A0405) in partial fulfilment of the requirement for the award of degree of Bachelor of Technology in Electronics and Communication Engineering by JAWAHARLAL NEHRU TECHNOLOGY UNIVERSITY, Hyderabad under our guidance and supervision.

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Department of ECE
VJIT, Hyderabad

Head of the Department

Department of ECE
VJIT, Hyderabad

EXTERNAL EXAMINER

A. Pavan
PRINCIPAL
Vidya Jyothi Institute of Technology
Huzur Nagar (VIII), C. B. Post,
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This is to certify that the project work entitled **“SAFETY IMPROVEMENT OF FISHERMEN USING ARDUINO UNO”** is a bonafide work carried out by Mr.V.Mahesh (16911A04P3), Mr.C.Sai Kumar (16911A04K0), Mr.K.Anil Kumar (15911A0472), Mr.M Sharath Chandra (16911A04L4) in partial fulfillment of the requirements for the award of Degree of **BACHELOR OF TECHNOLOGY IN ELECTRONICS AND COMMUNICATION ENGINEERING** by the **JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY, HYDERABAD**, under the guidance and supervision.

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Department of ECE
VJIT, Hyderabad

HEAD OF DEPARTMENT

Department of ECE
VJIT, Hyderabad

EXTERNAL EXAMINER

A. Prasanna
PRINCIPAL
Vidya Jyothi Institute of Technology
Himayatnagar (VIII), C B. Post.
Hyderabad-75.

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Department of Electronics and Communication Engineering



VIDYA JYOTHI
Institute Of Technology

CERTIFICATE

This is to certify that the project report entitled “**Smart security device for women**” is a bonafide work submitted by **K. Charishma (16911A04E2)**, **K. Pavan Krishna Rathod(16911A04E1)**, **K. Madhu (15915A0416)** of B.tech IV- II semester of *Electronics & Communication Engineering* is a record bonafide work carried out by them. The results embodied in this report have not been submitted to any other University for the award of any degree or diploma

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Dr. M. Vadivel
(M. E, Ph. D)

Head of the Department

Dr. K. Vasanth
(Professor and HOD Dept. of ECE)

EXTERNAL EXAMINER

PRINCIPAL
Vidya Jyothi Institute of Technology
Himayyannagar (VII), C. B. Post
Hyderabad-75.

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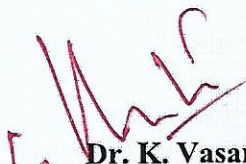
CERTIFICATE

This is to certify that the project report titled “**FOOD STORAGE MONITORING AND SERVING PEOPLE USING IOT**” is being submitted by **V.SAI PRIYA (16911A04P4), P. SUSHMA REDDY (16911A04P9), Y. KARTHIK REDDY (16911A04P7), E.RAJ KUMAR(16915A0418)** of B.tech IV- I semester of Electronics & Communication Engineering is a record bonafide work carried out by them. The results embodied in this report have not been submitted to any other University for the award of any degree.

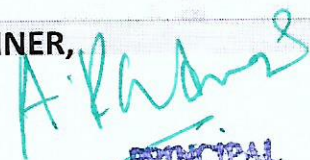
INTERNAL GUIDE,


Mrs.C.H.S.N Sirisha Devi
(Asst.Professor Dept Of ECE)

HEAD OF THE DEPARTMENT,


Dr. K. Vasanth
(Professor & HOD Dept Of ECE)

EXTERNAL EXAMINER,


PRINCIPAL
Vidya Jyothi Institute of Technology
Munagaynagar (VIII), C. B. Post
Hyderabad-75.

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Department of Electronics and Communication Engineering



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CERTIFICATE

This is to certify that the project work entitled "IOT BASED DIGITAL METER" is a bonafide work carried out by C. SATVIKA (16911A04C5), PEMMAKA NIRANJAN REDDY (16911A04G0), VUJINI NITHIN RAJ (16911A04J0), MUTHYALA RAJESH (16915A0433) in partial fulfillment of the requirement for the award of degree of **Bachelor of Technology in Electronics and Communication Engineering** by **JAWAHARLAL NEHRU TECHNOLOGY UNIVERSITY, Hyderabad**, under our guidance and supervision.

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VJIT, Hyderabad

Head of the Department
Department of ECE
VJIT, Hyderabad

EXTERNAL EXAMINER

A. Kumar

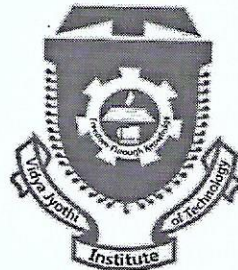
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CERTIFICATE

This is to certify that the project work entitled “SMART GATE SYSTEM USING BLUETOOTH” is a bonafide work carried out by Ch.Jyothi Kiranmai (16911A0411), G. Shesha Sai(16911A04D0), K. Mamatha (17915A0402) in partial fulfilment of the requirements for the award of degree of **BACHELOR OF TECHNOLOGY IN ELECTRONICS AND COMMUNICATION ENGINEERING** by the **JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY**, Hyderabad, under our guidance and supervision.

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INTERNAL SUPERVISOR

Department of ECE

VJIT, Hyderabad

HEAD OF THE DEPARTMENT

Department of ECE

VJIT, Hyderabad

EXTERNAL EXAMINER

PRINCIPAL
Vidya Jyothi Institute of Technology
Nimmayyasaagar (VIII), C. B. Road
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2019 - 2020


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DEPARTMENT OF ELECTRONICS & COMMUNICATION ENGINEERING

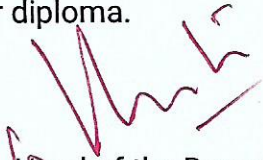


CERTIFICATE

This is to certify that the project work entitled " IOT WEATHER REPORTING SYSTEM USING RASPBERRY PI 3 " is a bonafide work carried out by P. ANVESH(16911A0450),G.JAYASREE(16911A0421),MD.AJMALAHMED(16911A0441), R.CHANDULAL (17915A0406) in partial fulfilment of the requirements for the award of degree of BACHELOR OF TECHNOLOGY IN ELECTRONICS AND COMMUNICATION ENGINEERING by the JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY, Hyderabad, under our guidance and supervision.

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Dept. of ECE



External Examiner

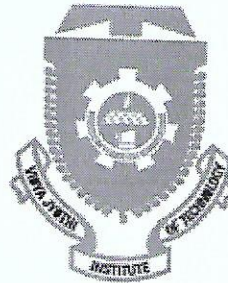
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Department of Electronics and Communication Engineering



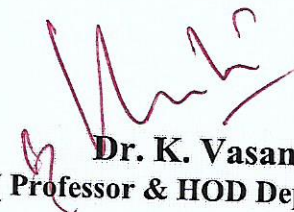
CERTIFICATE

This is to certify that the project report titled “IMPLEMENTATION OF 32-BIT MIPS BASED ON RISC PROCESSOR BY USING VHDL PROSESSOR” is being submitted by **B.UMA (17915A0408), S.DHARMA TEJA (16911A04A8), A. SRI CHARAN (16911A0461)** of B. Tech IV- II semester of *Electronics & Communication Engineering* is a record bonafide work carried out by them. The results embodied in this report have not been submitted to any other University for the award of any degree.



INTERNAL GUIDE,

Mr. A. SATHEESH
(Asst. Professor Dept Of ECE)

HEAD OF THE DEPARTMENT,


Dr. K. Vasanth
(Professor & HOD Dept OECE)

EXTERNAL EXAMINER,


PRINCIPAL
Vidya Jyothi Institute of Technology
Huzur Nagar (VIII), C.B. Post

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(Aziz Nagar, C.B.Post, Hyderabad -500075)

Department of Electronics and Communication Engineering



CERTIFICATE

This is to certify that the project report titled "GARBAGE COLLECTION AND MONITORING ROBOT USING WIRELESS COMMUNICATION" is being submitted by K.DIVYAVANI (17915A0412), THOTA ARUN (16911A04B4), BOINI VARUN (16911A0465), PETER MOSHE (17915A0409) of B.tech IV- II semester of *Electronics & Communication Engineering* is a record bonafide work carried out by them. The results embodied in this report have not been submitted to any other University for the award of any degree.

INTERNAL GUIDE,

Dr. K.Vasanth
(Professor & HOD Dept Of ECE)

HEAD OF THE DEPARTMENT,

Dr.K. Vasanth
(Professor & HOD Dept Of ECE)

EXTERNAL EXAMINER,

A Vasanth

PRINCIPAL

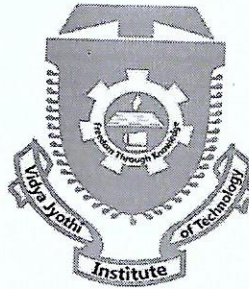
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Hyderabad-75

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Department of Electronics and communication Engineering



CERTIFICATE

This is to certify that the project work entitled "AUTOMATIC BILLING IN SHOPPING TROLLEY USING RFID" is being submitted by BODA DEEPIKA (16911A0464), PATLOLLA ANVITHA (16911A0498), KONDA DEEPTHI (16911A0477), GOGULOTH SAI KUMAR (17915A0410) in partial fulfillment of the requirements for the award of degree of BACHELOR OF TECHNOLOGY IN ELECTRONICS AND COMMUNICATION ENGINEERING by the JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY, Hyderabad, under our guidance and supervision. The results embodied in this report have not been submitted to any other university or institute for the award of any degree or Diploma.


INTERNAL SUPERVISOR
Mrs. K. Pavani
Department of ECE
VJIT, Hyderabad


HEAD OF THE DEPARTMENT
Mr. K. Vasanth
Department of ECE
VJIT, Hyderabad

External Examiner

PRINCIPAL
Vidya Jyoti Institute of Technology
Munimayyanager (VIII), C. B. Puri
Hyderabad-75.

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Department of Electronics and Communication Engineering



CERTIFICATE

This is to certify that the project report titled “MICROSTRIP PATCH ANTENNA AT 28 GHZ FOR 5G APPLICATIONS” is being submitted by G.Sai Vamshi (16911A0473), S.Shruthi (17915A0414), P.AkshayKumar (16911A04A1), K.Venkatesh (17915A0411) of B.tech IV-II semester of Electronics & Communication Engineering is a record bonafide work carried out by them. The results embodied in this report have not been submitted to any other university or institute for the award of any degree.

INTERNAL GUIDE

Mr.G. Parameswar (PhD)
(Asst.Professor Dept Of ECE)

HEAD OF THE DEPARTMENT

Dr. K. Vasanth
(Professor & HOD Dept of ECE)

EXTERNAL EXAMINER

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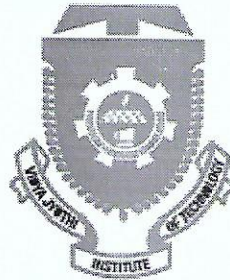
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Department of Electronics and Communication Engineering



CERTIFICATE

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INTERNAL GUIDE,

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(Professor & HOD Dept Of ECE)

HEAD OF THE DEPARTMENT,

Dr.K. Vasanth
(Professor & HOD Dept Of ECE)

EXTERNAL EXAMINER,

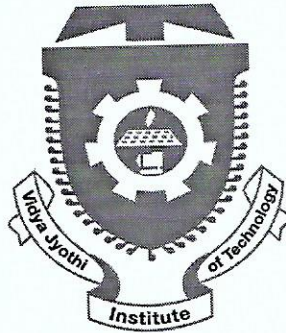
A Vasanth

PRINCIPAL

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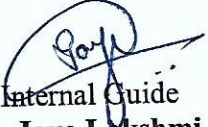
Department of Electronics and Communication Engineering




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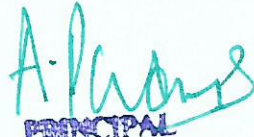
This is to certify that the project work entitled **Hand Gesture Controlled Robot using Arduino** is a bonafide work carried out by **Pavan Kumar Pathepur (16911A0497)**, **Divya Mudireddy (16911A0490)**, **Anand Surya (16911A04A7)**, **Omprakash Siripolu (17915A0413)** in partial fulfilment of the requirements for the award of degree of **BACHELOR OF TECHNOLOGY IN ELECTRONICS AND COMMUNICATION ENGINEERING** by the **JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY, Hyderabad**, under our guidance and supervision.

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Internal Guide
A. Jaya Lakshmi
Associate Professor
Department of Electronics and
Communication Engineering
VJIT, Hyderabad.


Head of the Department
Dr. K. Vasanth
Department of Electronics and
Communication Engineering
VJIT, Hyderabad.

External Examiner


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Department of Electronics and Communication Engineering



CERTIFICATE

This is to certify that the project report titled “MICROSTRIP PATCH ANTENNA AT 28 GHZ FOR 5G APPLICATIONS” is being submitted by G.Sai Vamshi (16911A0473), S.Shruthi (17915A0414), P.AkshayKumar (16911A04A1), K.Venkatesh (17915A0411) of B.tech IV-II semester of Electronics & Communication Engineering is a record bonafide work carried out by them. The results embodied in this report have not been submitted to any other university or institute for the award of any degree.

INTERNAL GUIDE

Mr.G. Parameswar (PhD)
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HEAD OF THE DEPARTMENT

Dr. K. Vasanth
(Professor & HOD Dept of ECE)

EXTERNAL EXAMINER

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Department of Electronics and Communication Engineering



CERTIFICATE

This is to certify that the project work entitled "IMPLEMENTATION OF UART PROTOCOL BASED ON FIFO TECHNIQUE USING FIFO" is a bonafied work carried out by V Sravani (17915A0415), S Anusha (15911A0453), R Siva Karthik (16911A04G6), K Sai Teja (16911A04D9), P Pavan (17915A0405) in partial fulfilment of the requirement for the award of degree of Bachelor of Technology in Electronics and Communication Engineering by JAWAHARLAL NEHRU TECHNOLOGY UNIVERSITY, Hyderabad under our guidance and supervision.

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Internal Guide

Department of ECE
VJIT, Hyderabad

Head of the Department

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VJIT, Hyderabad

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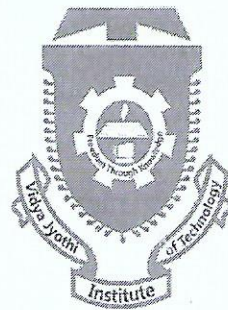
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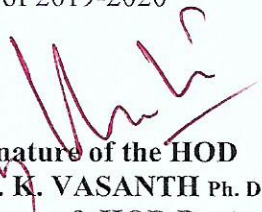
Department of Electronics and Communication Engineering



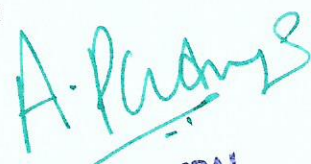
CERTIFICATE

This is to certify that the project entitled "DESIGN AND VERIFICATION OF APB PROTOCOL IN AMBA USING SYSTEM VERILOG" is done by **G. DUSHYANTH (16911A04C9)**, **P.SAI SRINATH(16911A04G3)** and **P.L.S SUBRAMANESHWARA RAO (16911A04F8)**, **B.HEMANTH SRUJAN(17915A0416)** submitted to the faculty of Electronics & Communication Engineering in partial fulfilment of the requirements for the Degree of **BACHELOR OF TECHNOLOGY** in **ELECTRONICS AND COMMUNICATION ENGINEERING** for the academic year of 2019-2020

Signature of the Guide
Mr. SHUBANVALLI SHAIK M.Tech,
Asst. Professor Dept. of ECE


Signature of the HOD
DR. K. VASANTH Ph. D
Professor & HOD Dept. of ECE

EXTERNAL EXAMINER


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Department of Electronics and Communication Engineering



CERTIFICATE

This is to certify that the project work entitled "Face Recognition using Raspberry pi" is a bonafide work carried out by G.Dharani Santhoshi (16911A04D2), T.Maheshbabu(16911A04H6), D.HariKrishna(17915A0417), S.Manogna Reddy(16911A04H2) of B.Tech IV-II semester of Electronics and Communication Engineering is a record bonafide work carried by them. The results embodied in this report have not been submitted to any other university or institute for the award of any degree or diploma.


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Mrs. A.Pavithra
Asst.Professor Dept.of ECE

Head of the Department


Mr. K. Vasanth
HOD & Professor Dept.of ECE

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Department of Electronics and Communication Engineering



CERTIFICATE

This is to certify that the project work entitled “SMART FARMING USING IoT” is done by **M. Pallavi (16911A04F0), P. Nikhila Reddy (16911A04F7), J. Vishal (179115A0418)** submitted to the faculty of Electronics and communication Engineering in partial fulfilment of the requirements for the Degree of **BACHELOR OF TECHNOLOGY** in **ELECTRONICS AND COMMUNICATION ENGINEERING** for the academic year of 2019-2020




Signature of the Guide
Mr. D. NARESH KUMAR M.Tech,
Asst. Professor Dept. of ECE



Signature of the HOD
DR. K. VASANTH Ph. D
Professor & HOD Dept. of ECE

External Examiner



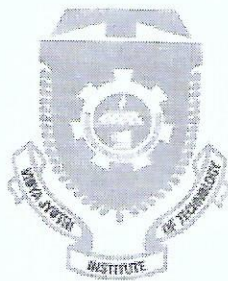
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Department of Electronics and Communication Engineering



CERTIFICATE

This is to certify that the project report titled "DISEASE PREDICTION USING MACHINE LEARNING" is being submitted by CHITYALA RANI (16911A04C6), A.ETHISH KUMAR (16911A04C1), K.BHANU PRASAD (16911A04E3), M.SRINIVAS (17915A0420) of B.tech IV-semester of *Electronics & Communication Engineering* is a record bonafide work carried out by them. The results embodied in this report have not been submitted to any other University for the award of any degree.

INTERNAL GUIDE,


Mr. PRADEEP KUMAR
(Asst.Professor Dept Of ECE)

HEAD OF THE DEPARTMENT,


Dr. K. Vasanth
(Professor & HOD Dept Of ECE)

EXTERNAL EXAMINER,


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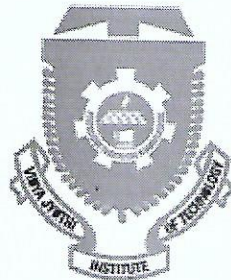
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Department of Electronics and Communication Engineering



CERTIFICATE

This is to certify that the project report titled **“Automatic Accident Notification Model”** is being submitted by **T.NAVYA REDDY (17915A0423), S.SAHITHI (16911A0H1)** of B.tech IV- II semester of Electronics & Communication Engineering is a record bonafide work carried out by them. The results embodied in this report have not been submitted to any other University for the award of any degree.

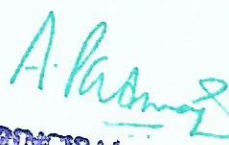
INTERNAL GUIDE

Mr. Mirza Sajid Ali Baig
(Asst.Professor Dept of ECE)

HEAD OF THE DEPARTMENT


Dr. K. Vasanth
(Professor & HOD Dept of ECE)

EXTERNAL EXAMINER


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Department of Electronics and Communication Engineering



CERTIFICATE

This is to certify that the project report titled “**Smart Footstep power generation using RFID for charging**” is being submitted by **K.AKHILA (16911A04L2), M.S.M.HUSSAIN(16911A04L7), K.GANESH(17915A0425), G.S AI PRASAD(14911A0472)** of B.tech IV- I semester of *Electronics & Communication Engineering* is a record bonafide work carried out by them. The results embodied in this report have not been submitted to any other University for the award of any degree.


INTERNAL GUIDE


Mr. G. Ravi Kishore
(Asst.Professor Dept Of ECE)
Dept Of ECE)

HEAD OF THE DEPARTMENT


Dr. K. Vasanth
(Professor & HOD)

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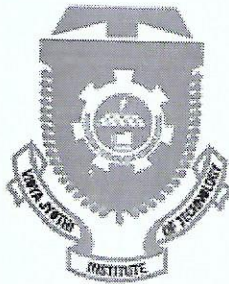

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Hyderabad)

(Aziz Nagar, C.B.Post, Hyderabad -500075)

Department of Electronics and Communication Engineering



CERTIFICATE

This is to certify that the project report titled "GAS LEVEL DETECTION AND AUTOMATIC BOOKING USING IOT" is being submitted by N.MAMATHA(17915A0427), K.VISHNU(16911A04K9), T.RAKESH(17915A0431), MD.RAHAMAN(16911A04M0) of B.tech IV- II semester of *Electronics & Communication Engineering* is a record bonafide work carried out by them. The results embodied in this report have not been submitted to any other University for the award of any degree.

INTERNAL GUIDE


Mrs.M.RENUKA

(Asst.Professor, Dept Of ECE)

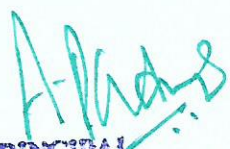

HEAD OF DEPARTMENT

DR.K.VASANTH

(Professor & HOD Dept Of ECE)

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II

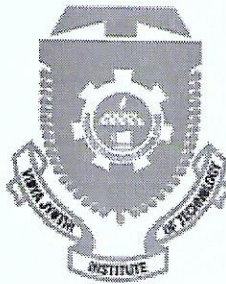

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(Aziz Nagar, C.B.Post, Hyderabad -500075)

Department of Electronics and Communication Engineering



CERTIFICATE

This is to certify that the project report titled **“Intelligent Traffic Light Scheduling Using Image Processing”** is being submitted by **B.GOVARDHAN (16911A0J8), P.SAI CHANDRA REDDY (17915A0429), G.ANURAG (16911A04K2), J.ANIL KUMAR (16911A04K6)** of B.tech IV- II semester of *Electronics & Communication Engineering* is a record bonafide work carried out by them. The results embodied in this report have not been submitted to any other University for the award of any degree.

INTERNAL GUIDE

Dr.P.Ganesan
(Professor Dept of ECE)

HEAD OF THE DEPARTMENT

Dr. K. Vasanth
(Professor & HOD Dept of ECE)

EXTERNAL EXAMINER

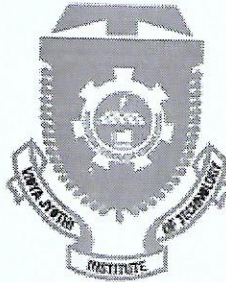
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Hyderabad)

(Aziz Nagar, C.B.Post, Hyderabad -500075)

Department of Electronics and Communication Engineering



CERTIFICATE

This is to certify that the project report titled "GAS LEVEL DETECTION AND AUTOMATIC BOOKING USING IOT" is being submitted by N.MAMATHA(17915A0427), K.VISHNU(16911A04K9), T.RAKESH(17915A0431), MD.RAHAMAN(16911A04M0) of B.tech IV- II semester of *Electronics & Communication Engineering* is a record bonafide work carried out by them. The results embodied in this report have not been submitted to any other University for the award of any degree.

INTERNAL GUIDE


Mrs.M.RENUKA

(Asst.Professor, Dept Of ECE)


HEAD OF DEPARTMENT

DR.K.VASANTH

(Professor & HOD Dept Of ECE)

EXTERNAL EXAMINER

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PRINCIPAL

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(AUTONOMOUS)

AZIZ NAGAR-500075, HYDERABAD

DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING.



CERTIFICATE

This is to certify that the project entitled " *IMPLEMENTATION OF XOR BASED* ", done by *SRINIVASA RAO* bearing *1801105703*, submit to the faculty of Electronics and Communication Engineering, in partial fulfillment of the requirements for the Degree of *B.TECH IN ELECTRONICS AND COMMUNICATION ENGINEERING* with specialization in *VLSI* from Jawaharlal Nehru Technological University Hyderabad, during the year 2019-2020.

CH. Sandeep
Mr. CH. SANDEEP
Assistant Professor
Supervisor

G. Srinivasa Rao
Mr. G. SRINIVASA RAO
Associate Professor
M. Tech Project Coordinator

K. Vasanth
Dr. K. VASANTH
HOD, ECE

A. Prasad
EXTERNAL EXAMINER

A. Prasad
PRINCIPAL

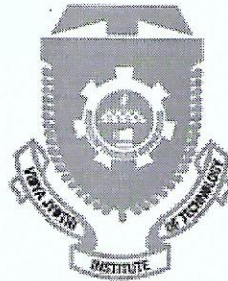
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Department of Electronics and Communication Engineering




CERTIFICATE

This is to certify that the project report titled "SMART-QUADCOPTER SURVEILLANCE SYSTEM USING OBJECT DETECTION" is being submitted by P.MITHUN RAJ (16911A04A0), Y.SANJANA REDDY (16911A04C0), V.SHRAVAN (16911A04B5), P.SURENDRA (16911A04A2) of B.tech IV- II semester of Electronics & Communication Engineering is a record bonafide work carried out by them. The results embodied in this report have not been submitted to any other University for the award of any degree.

INTERNAL GUIDE,

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(Professor Dept Of ECE)

HEAD OF THE DEPARTMENT,


Dr. K. Vasanth
(Professor & HOD Dept Of ECE)

EXTERNAL EXAMINER


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Department of Electronics and Communication Engineering



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This is to certify that the project report titled “MICROSTRIP PATCH ANTENNA AT 28 GHZ FOR 5G APPLICATIONS” is being submitted by G.Sai Vamshi (16911A0473), S.Shruthi (17915A0414), P.AkshayKumar (16911A04A1), K.Venkatesh (17915A0411) of B.tech IV-II semester of Electronics & Communication Engineering is a record bonafide work carried out by them. The results embodied in this report have not been submitted to any other university or institute for the award of any degree.

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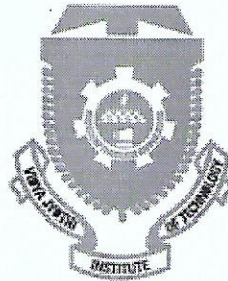
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Department of Electronics and Communication Engineering




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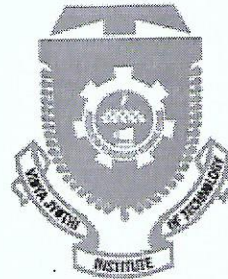
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Department of Electronics and Communication Engineering




CERTIFICATE

This is to certify that the project report titled “**Ultrasonic Blind Stick with GPS**” is being submitted by **RACHA GANESH (16911A04A4), M.SAI KUMAR REDDY (16911A0489), MADHU KUNCHALA (16911A0481), P.N.PRANAY (16911A0494)** of B.tech IV- 2 semester of *Electronics & Communication Engineering* is a record bonafide work carried out by them. The results embodied in this report have not been submitted to any other University for the award of any degree.


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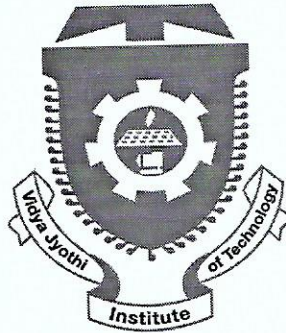

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(Professor & HOD Dept Of ECE)

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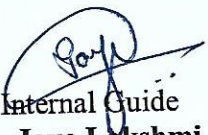
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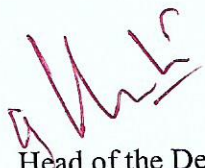


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This is to certify that the project work entitled **Hand Gesture Controlled Robot using Arduino** is a bonafide work carried out by **Pavan Kumar Pathepur (16911A0497)**, **Divya Mudireddy (16911A0490)**, **Anand Surya (16911A04A7)**, **Omprakash Siripolu (17915A0413)** in partial fulfilment of the requirements for the award of degree of **BACHELOR OF TECHNOLOGY IN ELECTRONICS AND COMMUNICATION ENGINEERING** by the **JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY, Hyderabad**, under our guidance and supervision.

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Internal Guide
A. Jaya Lakshmi
Associate Professor
Department of Electronics and
Communication Engineering
VJIT, Hyderabad.


Head of the Department
Dr. K. Vasanth
Department of Electronics and
Communication Engineering
VJIT, Hyderabad.

External Examiner

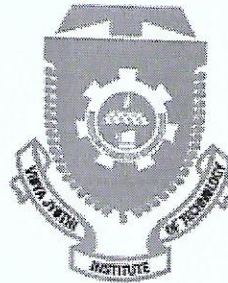

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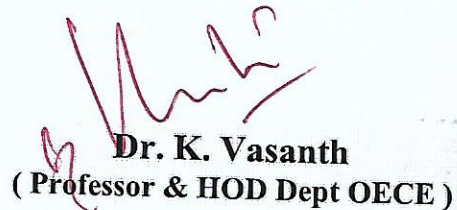
CERTIFICATE

This is to certify that the project report titled “IMPLEMENTATION OF 32-BIT MIPS BASED ON RISC PROCESSOR BY USING VHDL PROSESSOR” is being submitted by **B.UMA (17915A0408), S.DHARMA TEJA (16911A04A8), A. SRI CHARAN (16911A0461)** of B. Tech IV- II semester of *Electronics & Communication Engineering* is a record bonafide work carried out by them. The results embodied in this report have not been submitted to any other University for the award of any degree.



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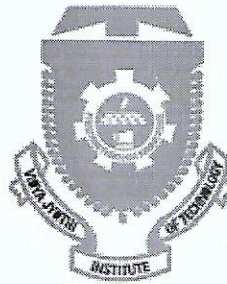

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CERTIFICATE

This is to certify that the project report titled “COLOUR DETECTION AND IDENTIFICATION FOR ROBOT DIRECTION CONTROL USING IMAGE PROCESSING” is being submitted by M. AJAY KUMAR (16911A0491), S. FIRDOUS AFREEN (16911A04A9) , G. BHAGAVAN (16911A0474), K. NAVA SURYA REDDY (16911A0479) of B.tech IV- I semester of *Electronics & Communication Engineering* is a record bonafide work carried out by them. The results embodied in this report have not been submitted to any other University for the award of any degree.

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A. Prasanna

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CERTIFICATE

This is to certify that the project report titled "RAILWAY TRACK CRACK DETECTION" is being submitted by N.BHANU PRAKASH REDDY (16911A0493), P.SUPRAJA(16911A0499), SHASHANK SAURAV(16911A04B0) of B.tech IV- II semester of *Electronics & Communication Engineering* is a record bonafide work carried out by them. The results embodied in this report have not been submitted to any other University for the award of any degree.


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Department of Electronics and Communication Engineering



CERTIFICATE

This is to certify that the project report titled **“Real Time Smart Attendance Posting Using Image Processing”** is being submitted by **S RAM GANESH(16911A04B1),ORRAY BHAVANA(16911A04M4),V MRUDULA(16911A04B6),V SRUJANA(16911A04B9)** of B.tech IV-II semester of *Electronics & Communication Engineering* is a record bonafide work carried out by them. The results embodied in this report have not been submitted to any other University for the award of any degree.

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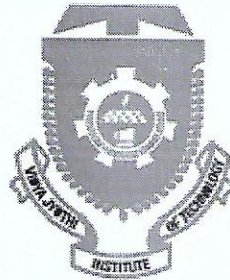
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This is to certify that the project report titled "GARBAGE COLLECTION AND MONITORING ROBOT USING WIRELESS COMMUNICATION" is being submitted by K.DIVYAVANI (17915A0412), THOTA ARUN (16911A04B4), BOINI VARUN (16911A0465), PETER MOSHE (17915A0409) of B.tech IV- II semester of *Electronics & Communication Engineering* is a record bonafide work carried out by them. The results embodied in this report have not been submitted to any other University for the award of any degree.

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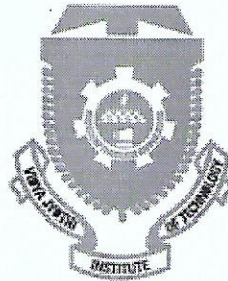
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CERTIFICATE

This is to certify that the project work report entitled “**PREDICTION OF EQUIPMENT FAILURE USING MACHINE LEARNING**”, being submitted by **Ms. V.SUSHMITHA(16911A04B7), Ms. D.HARSHITHA RAJ(16911A04K1), Ms. P.NAZIMA(16911A04M7), Ms. P.VASANTHI(16911A04N0)** in partial fulfilment of the requirements for the award of the Degree of **BACHELOR OF TECHNOLOGY IN ELECTRONICS AND COMMUNICATION ENGINEERING** by the **JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY, Hyderabad** under our guidance and supervision. The results embodied in this project report have not been submitted to any other University or Institute for the award of any Degree or Diploma.

INTERNAL SUPERVISOR

Ms
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(Asst. Professor, Dept. of ECE)

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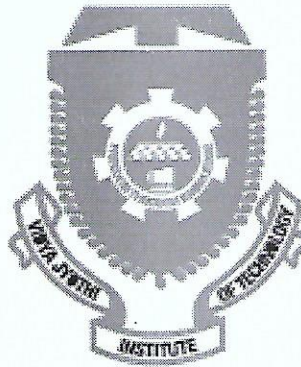
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This is to certify that the project entitled "ELECTRONIC PROTECTION FOR EXAM PAPER LEAKAGE", being submitted by D. PRANITHA (16911A0469), D.SUPRIYA (16911A0468), M. RAHUL YADAV (16911A0486), and V. SHRAVAN REDDY (16911A04B8) in partial fulfillment of the requirements for the award of the Degree of BACHELOR OF TECHNOLOGY in ELECTRONICS AND COMMUNICATION ENGINEERING by the JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY, Hyderabad under our guidance and supervision. The results embodied in this project report have not been submitted to any other University or Institute for the award of any Degree or Diploma.

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Department of ECE
VJIT, Hyderabad

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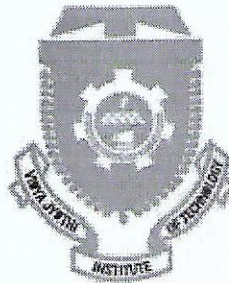
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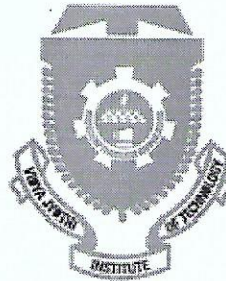
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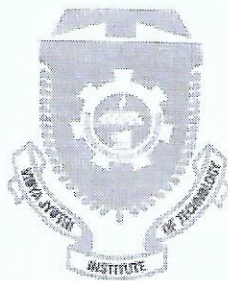
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This is to certify that the project report titled "DISEASE PREDICTION USING MACHINE LEARNING" is being submitted by CHITYALA RANI (16911A04C6), A.ETHISH KUMAR (16911A04C1), K.BHANU PRASAD (16911A04E3), M.SRINIVAS (17915A0420) of B.tech IV-semester of *Electronics & Communication Engineering* is a record bonafide work carried out by them. The results embodied in this report have not been submitted to any other University for the award of any degree.

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(Asst.Professor Dept Of ECE)

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Dr. K. Vasanth
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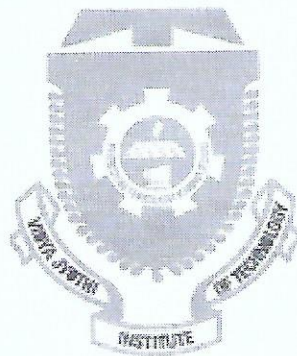
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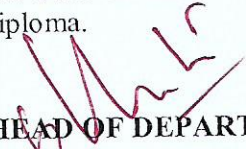
This is to certify that the project entitled "AN AUTOMATIC DRIVER DROWSINESS ALERT SYSTEM USING ARDUINO" is a bonafide work carried out by **Bandi Ramya(16911A04C3), Deepthi (15911A04D9), Hemanth (16911A04D7), Praneeth(16911A04G9)** in partial fulfillment of the requirements for the award of degree of **BACHELOR OF TECHNOLOGY** in **ELECTRONICS AND COMMUNICATION ENGINEERING** by the **JAWAHARLAL NEHRU TECHNOLOGY UNIVERSITY, Hyderabad**, under our guidance and supervision.

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INTERNAL GUIDE

Dr.S. Tulasi Prasad (Ph. D)
Department of ECE

HEAD OF DEPARTMENT


Dr. K. Vasanth
Department of ECE
VJIT, Hyderabad

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This is to certify that the project work entitled "IOT BASED DIGITAL METER" is a bonafide work carried out by C. SATVIKA (16911A04C5), PEMMAKA NIRANJAN REDDY (16911A04G0), VUJINI NITHIN RAJ (16911A04J0), MUTHYALA RAJESH (16915A0433) in partial fulfillment of the requirement for the award of degree of **Bachelor of Technology in Electronics and Communication Engineering** by **JAWAHARLAL NEHRU TECHNOLOGY UNIVERSITY, Hyderabad**, under our guidance and supervision.

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VJIT, Hyderabad

Head of the Department
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A. Prasad

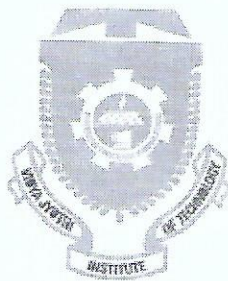
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This is to certify that the project report titled "DISEASE PREDICTION USING MACHINE LEARNING" is being submitted by CHITYALA RANI (16911A04C6), A.ETHISH KUMAR (16911A04C1), K.BHANU PRASAD (16911A04E3), M.SRINIVAS (17915A0420) of B.tech IV-semester of *Electronics & Communication Engineering* is a record bonafide work carried out by them. The results embodied in this report have not been submitted to any other University for the award of any degree.

INTERNAL GUIDE,


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(Asst.Professor Dept Of ECE)

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Dr. K. Vasanth
(Professor & HOD Dept Of ECE)

EXTERNAL EXAMINER,


PRINCIPAL

Vidya Jyothi Institute of Technology
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Department of Electronics and Communication Engineering



CERTIFICATE

This is to certify that the project entitled “Automatic Facial Expressions and Identification of different face reactions using Convolutional Neural Network” is done by R. Nikhil Kumar – 16911A04G4, E. Akhil Prasad - 16911A04C7 submitted to the faculty of Electronics & Communication Engineering in partial fulfilment of the requirements for the Degree of **BACHELOR OF TECHNOLOGY** in **ELECTRONICS AND COMMUNICATION ENGINEERING** for the academic year of 2019-2020

Signature of the Guide

Pradeep Kumar

Assoc. Professor Dept. of ECE

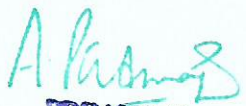
Signature of the HOD

DR. K. VASANTH Ph. D

Professor & HOD Dept. of ECE

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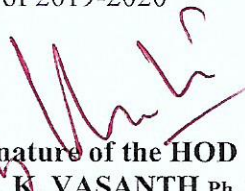
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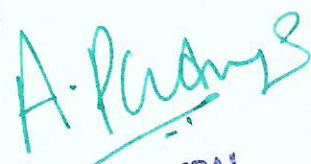
CERTIFICATE

This is to certify that the project entitled "DESIGN AND VERIFICATION OF APB PROTOCOL IN AMBA USING SYSTEM VERILOG" is done by **G. DUSHYANTH (16911A04C9)**, **P.SAI SRINATH(16911A04G3)** and **P.L.S SUBRAMANESHWARA RAO (16911A04F8)**, **B.HEMANTH SRUJAN(17915A0416)** submitted to the faculty of Electronics & Communication Engineering in partial fulfilment of the requirements for the Degree of **BACHELOR OF TECHNOLOGY** in **ELECTRONICS AND COMMUNICATION ENGINEERING** for the academic year of 2019-2020

Signature of the Guide
Mr. SHUBANVALLI SHAIK M.Tech,
Asst. Professor Dept. of ECE


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DR. K. VASANTH Ph. D
Professor & HOD Dept. of ECE

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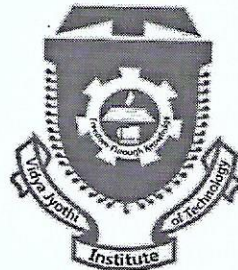

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CERTIFICATE

This is to certify that the project work entitled “SMART GATE SYSTEM USING BLUETOOTH” is a bonafide work carried out by Ch.Jyothi Kiranmai (16911A0411), G. Shesha Sai(16911A04D0), K. Mamatha (17915A0402) in partial fulfilment of the requirements for the award of degree of **BACHELOR OF TECHNOLOGY IN ELECTRONICS AND COMMUNICATION ENGINEERING** by the **JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY, Hyderabad**, under our guidance and supervision.

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INTERNAL SUPERVISOR

Department of ECE

VJIT, Hyderabad

HEAD OF THE DEPARTMENT

Department of ECE

VJIT, Hyderabad

EXTERNAL EXAMINER

PRINCIPAL
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Nimmayyasaagar (VIII), C. B. Road
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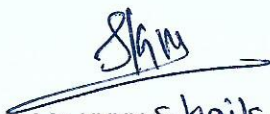
Department of Electronics and Communication Engineering




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This is to certify that the project report titled “VEHICLE TRACKING SYSTEM USING IOT” is being submitted by **G. DEEKSHITHA (16911A04D3)**, **G. BHAVANA (16911A04D1)**, **K. RAJESH (16911A04E0)**, **P. YESHWANTH (16911A04F5)** of B.tech IV- I semester of *Electronics & Communication Engineering* is a record bonafide work carried out by them. The results embodied in this report have not been submitted to any other University for the award of any degree.


INTERNAL GUIDE,


Mr. XXXX Shaik Mazum
(Asst.Professor Dept Of ECE)

HEAD OF THE DEPARTMENT,


Dr. K. Vasanth
(Professor & HOD Dept Of ECE)

EXTERNAL EXAMINER,


PRINCIPAL
Vidya Jyothi Institute of Technology
Himayatnagar (Vill), C. B. Post
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(Aziz Nagar, C.B Post Hyderabad -500075)

Department of Electronics and Communication Engineering



CERTIFICATE

This is to certify that the project work entitled "Face Recognition using Raspberry pi" is a bonafide work carried out by G.Dharani Santhoshi (16911A04D2), T.Maheshbabu(16911A04H6), D.HariKrishna(17915A0417), S.Manogna Reddy(16911A04H2) of B.Tech IV-II semester of Electronics and Communication Engineering is a record bonafide work carried by them. The results embodied in this report have not been submitted to any other university or institute for the award of any degree or diploma.

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Asst.Professor Dept.of ECE

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Mr. K. Vasanth
HOD & Professor Dept.of ECE

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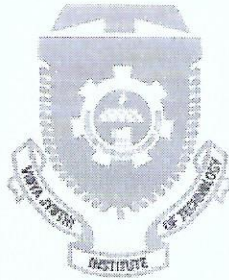
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Vidya Jyothi Institute of Technology
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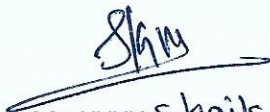
Department of Electronics and Communication Engineering




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(Professor & HOD Dept Of ECE)

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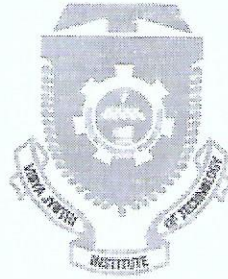

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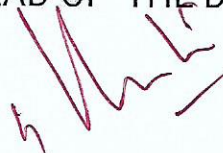
This is to certify that the project report titled "Arduino Based Child Rescue System From Borewell" is being submitted by M.MOUNIKA (16911A04F1), S.MANICHANDANA (16911A04H3), J.RAKSHIT (16911A04D5) of B.tech IV- I semester of *Electronics & Communication Engineering* is a record bonafide work carried out by them. The results embodied in this report have not been submitted to any other University for the award of any degree.



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(Asst.Professor Dept Of ECE)

HEAD OF THE DEPARTMENT,



Dr. K. Vasanth
(Professor & HOD Dept Of ECE)

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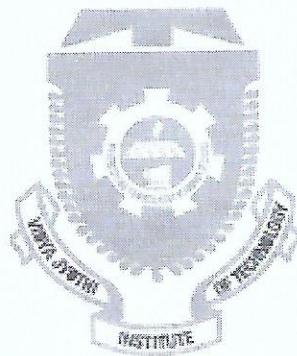

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This is to certify that the project entitled "AN AUTOMATIC DRIVER DROWSINESS ALERT SYSTEM USING ARDUINO" is a bonafide work carried out by **Bandi Ramya(16911A04C3), Deepthi (15911A04D9), Hemanth (16911A04D7), Praneeth(16911A04G9)** in partial fulfillment of the requirements for the award of degree of **BACHELOR OF TECHNOLOGY** in **ELECTRONICS AND COMMUNICATION ENGINEERING** by the **JAWAHARLAL NEHRU TECHNOLOGY UNIVERSITY, Hyderabad**, under our guidance and supervision.

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INTERNAL GUIDE

Dr.S. Tulasi Prasad (Ph. D)
Department of ECE

HEAD OF DEPARTMENT

K. Vasanth
Dr. K. Vasanth
Department of ECE
VJIT, Hyderabad

EXTERNAL EXAMINER

A. Prasad
PRINCIPAL

Vidya Jyothi Institute of Technology
Himayyasaagar (VIII), C. B. Post
Hyderabad-75

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Department of Electronics and Communication Engineering



CERTIFICATE

This is to certify that the project work entitled "IMPLEMENTATION OF UART PROTOCOL BASED ON FIFO TECHNIQUE USING FIFO" is a bonafied work carried out by V Sravani (17915A0415), S Anusha (15911A0453), R Siva Karthik (16911A04G6), K Sai Teja (16911A04D9), P Pavan (17915A0405) in partial fulfilment of the requirement for the award of degree of Bachelor of Technology in Electronics and Communication Engineering by JAWAHARLAL NEHRU TECHNOLOGY UNIVERSITY, Hyderabad under our guidance and supervision.

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Department of ECE
VJIT, Hyderabad

Head of the Department

Department of ECE
VJIT, Hyderabad

EXTERNAL EXAMINER

A. Pavan
PRINCIPAL
Vidya Jyothi Institute of Technology
Huzur Nagar (VIII), C. B. Post,
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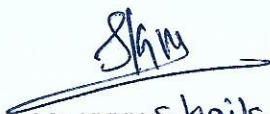
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Mr. XXXX Shaik Mazum
(Asst.Professor Dept Of ECE)

HEAD OF THE DEPARTMENT,


Dr. K. Vasanth
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EXTERNAL EXAMINER,


PRINCIPAL
Vidya Jyothi Institute of Technology
Himayatnagar (Vill), C. B. Post
Hyderabad-75

VIDYA JYOTHI INSTITUTE OF TECHNOLOGY
(An Autonomous Institution)
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Department of Electronics and Communication Engineering



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Institute Of Technology

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This is to certify that the project report entitled “**Smart security device for women**” is a bonafide work submitted by **K. Charishma (16911A04E2)**, **K. Pavan Krishna Rathod(16911A04E1)**, **K. Madhu (15915A0416)** of B.tech IV- II semester of *Electronics & Communication Engineering* is a record bonafide work carried out by them. The results embodied in this report have not been submitted to any other University for the award of any degree or diploma

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Dr. M. Vadivel
(M. E, Ph. D)

Head of the Department

Dr. K. Vasanth
(Professor and HOD Dept. of ECE)

EXTERNAL EXAMINER

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Vidya Jyothi Institute of Technology
Himayyannagar (VII), C. B. Post
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Dr. M. Vadivel
(M. E, Ph. D)

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Dr. K. Vasanth
(Professor and HOD Dept. of ECE)

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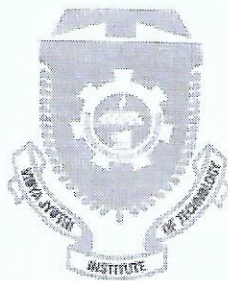
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Department of Electronics and Communication Engineering



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Mr. PRADEEP KUMAR
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HEAD OF THE DEPARTMENT,


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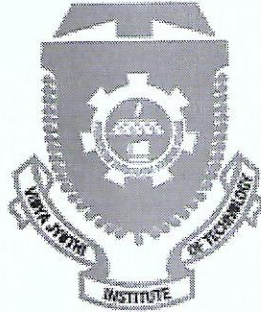
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Department Of Electronics And Communication Engineering



CERTIFICATE

This is to certify that the project entitled “**IMAGE TO TEXT CONVERSION USING OCR AND IMAGE PROCESSING**”, done by L.Madhuri(16911A04E5), M.Spoorti Bharati(16911A04E7), S.Sri Harshita(16911A04H0), V.Harish(16911A04H9) submitted to the faculty of Electronics & Communication Engineering, in partial fulfilment of the requirements for the Degree of **BACHELOR OF TECHNOLOGY in ELECTRONICS AND COMMUNICATION ENGINEERING** for the academic year of 2019-2020.

Signature of the Guide

Mr. V. Sridhar

Assoc. professor Dept of ECE

Signature of the Head of the Department

Professor & HOD Dept of ECE

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CERTIFICATE

This is to certify that the project entitled “**MODEL AND IMPLEMENTATION OF ROBOTIC ARM USING ANDROIDO**” is a bonafied work carried out by, **M.Harsha vardhan reddy (16911A04E6), P.Mani shankar(16911A04G2), K.Sai teja(16911A04G8) and Suhas hrithik(16911A04H5)** in partial fulfilment of the requirements for the award of degree of **BACHELOR OF TECHNOLOGY IN ELECTRONICS AND COMMUNICATION ENGINEERING** by the **JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY**, Hyderabad, under our guidance and supervision.

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INTERNAL SUPERVISOR HEAD OF DEPARTMENT

Department of ECE

Department of ECE

VJIT, Hyderabad VJIT, Hyderabad

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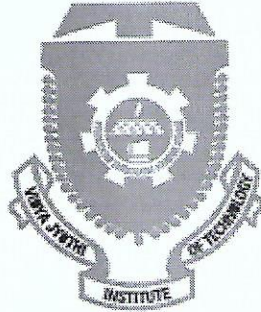
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Mr. V. Sridhar

Assoc. professor Dept of ECE

Signature of the Head of the Department

Professor & HOD Dept of ECE

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Vidya Jyothi Institute of Technology
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Hyderabad-73

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This is to certify that the project work entitled “SMART FARMING USING IoT” is done by **M. Pallavi (16911A04F0), P. Nikhila Reddy (16911A04F7), J. Vishal (179115A0418)** submitted to the faculty of Electronics and communication Engineering in partial fulfilment of the requirements for the Degree of **BACHELOR OF TECHNOLOGY** in **ELECTRONICS AND COMMUNICATION ENGINEERING** for the academic year of 2019-2020




Signature of the Guide
Mr. D. NARESH KUMAR M.Tech,
Asst. Professor Dept. of ECE



Signature of the HOD
DR. K. VASANTH Ph. D
Professor & HOD Dept. of ECE

External Examiner



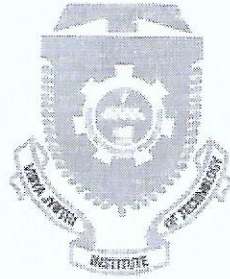
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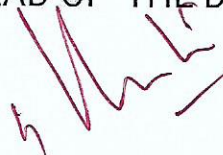
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(Asst.Professor Dept Of ECE)

HEAD OF THE DEPARTMENT,



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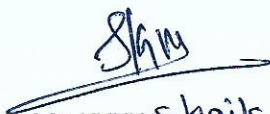
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(Asst.Professor Dept Of ECE)

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Dr. K. Vasanth
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EXTERNAL EXAMINER,


PRINCIPAL
Vidya Jyothi Institute of Technology
Himayatnagar (Vill), C. B. Post
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Signature of the Guide
Mr. D. NARESH KUMAR M.Tech,
Asst. Professor Dept. of ECE

Signature of the HOD
DR. K. VASANTH Ph. D
Professor & HOD Dept. of ECE

External Examiner

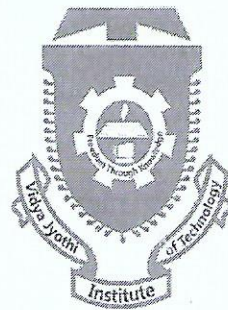
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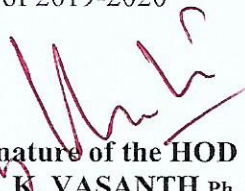
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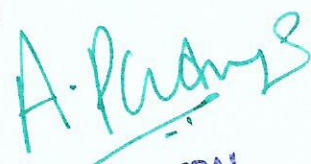
CERTIFICATE

This is to certify that the project entitled "DESIGN AND VERIFICATION OF APB PROTOCOL IN AMBA USING SYSTEM VERILOG" is done by **G. DUSHYANTH (16911A04C9)**, **P.SAI SRINATH(16911A04G3)** and **P.L.S SUBRAMANESHWARA RAO (16911A04F8)**, **B.HEMANTH SRUJAN(17915A0416)** submitted to the faculty of Electronics & Communication Engineering in partial fulfilment of the requirements for the Degree of **BACHELOR OF TECHNOLOGY** in **ELECTRONICS AND COMMUNICATION ENGINEERING** for the academic year of 2019-2020

Signature of the Guide
Mr. SHUBANVALLI SHAIK M.Tech,
Asst. Professor Dept. of ECE


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DR. K. VASANTH Ph. D
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VJIT, Hyderabad

Head of the Department
Department of ECE
VJIT, Hyderabad

EXTERNAL EXAMINER

A. Kumar

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Vidya Jyothi Institute of Technology
Himayatnagar (VIII), C. E. Post,
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INTERNAL SUPERVISOR HEAD OF DEPARTMENT

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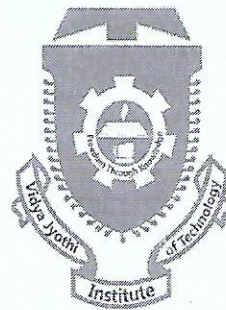
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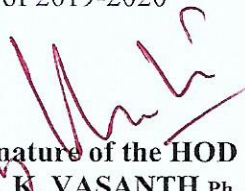
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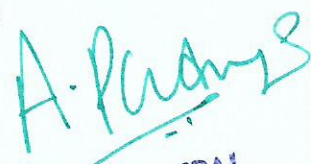
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Asst. Professor Dept. of ECE


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Professor & HOD Dept. of ECE

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Department of Electronics and Communication Engineering



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This is to certify that the project entitled “Automatic Facial Expressions and Identification of different face reactions using Convolutional Neural Network” is done by R. Nikhil Kumar – 16911A04G4, E. Akhil Prasad - 16911A04C7 submitted to the faculty of Electronics & Communication Engineering in partial fulfilment of the requirements for the Degree of **BACHELOR OF TECHNOLOGY** in **ELECTRONICS AND COMMUNICATION ENGINEERING** for the academic year of 2019-2020

Signature of the Guide

Pradeep Kumar

Assoc. Professor Dept. of ECE

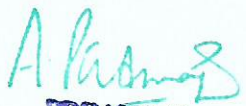
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DR. K. VASANTH Ph. D

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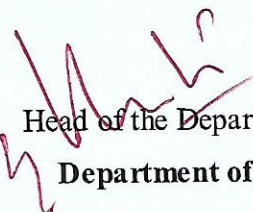
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CERTIFICATE


This is to certify that the project work entitled “ENERGY EFFICIENCY OPTIMIZATION FOR DEVICE-TO-DEVICE COMMUNICATIONS IN 5G NETWORKS” is a bonafide work carried out by E.SREENATH(16911A04H4), ZAKEER MOHAMMAD(15911A0460), RAMGIRI VISHAL(16911A04G5) in partial fulfillment of the requirements for the award of degree of **Bachelor of Technology in Electronics and Communication Engineering** by the **JAWAHARLAL NEHRU TECHNOLOGY UNIVERSITY, Hyderabad**, under our guidance and supervision.

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CERTIFICATE

This is to certify that the project work entitled "IMPLEMENTATION OF UART PROTOCOL BASED ON FIFO TECHNIQUE USING FIFO" is a bonafied work carried out by V Sravani (17915A0415), S Anusha (15911A0453), R Siva Karthik (16911A04G6), K Sai Teja (16911A04D9), P Pavan (17915A0405) in partial fulfilment of the requirement for the award of degree of Bachelor of Technology in Electronics and Communication Engineering by JAWAHARLAL NEHRU TECHNOLOGY UNIVERSITY, Hyderabad under our guidance and supervision.

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A. Pavan
PRINCIPAL
Vidya Jyothi Institute of Technology
Huzur Nagar (VIII), C. B. Post,
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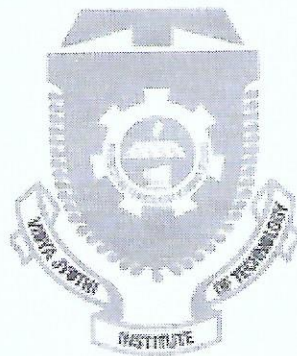
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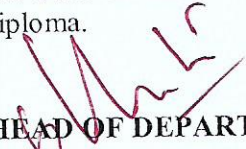
This is to certify that the project entitled "AN AUTOMATIC DRIVER DROWSINESS ALERT SYSTEM USING ARDUINO" is a bonafide work carried out by **Bandi Ramya(16911A04C3), Deepthi (15911A04D9), Hemanth (16911A04D7), Praneeth(16911A04G9)** in partial fulfillment of the requirements for the award of degree of **BACHELOR OF TECHNOLOGY** in **ELECTRONICS AND COMMUNICATION ENGINEERING** by the **JAWAHARLAL NEHRU TECHNOLOGY UNIVERSITY, Hyderabad**, under our guidance and supervision.

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Dr. K. Vasanth
Department of ECE
VJIT, Hyderabad

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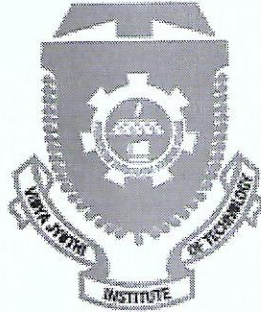
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CERTIFICATE

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Signature of the Guide

Mr. V. Sridhar

Assoc. professor Dept of ECE

Signature of the Head of the Department

Professor & HOD Dept of ECE

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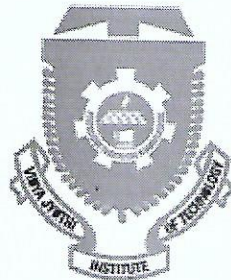
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Department of Electronics and Communication Engineering



CERTIFICATE

This is to certify that the project report titled **“Automatic Accident Notification Model”** is being submitted by **T.NAVYA REDDY (17915A0423), S.SAHITHI (16911A0H1)** of B.tech IV- II semester of Electronics & Communication Engineering is a record bonafide work carried out by them. The results embodied in this report have not been submitted to any other University for the award of any degree.

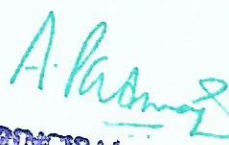
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Mr. Mirza Sajid Ali Baig
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(Professor & HOD Dept of ECE)

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Department of Electronics and Communication Engineering



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Mrs. A.Pavithra
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Mr. K. Vasanth
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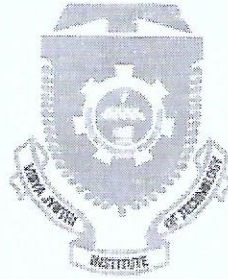

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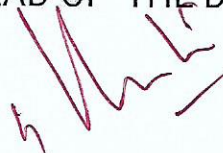
This is to certify that the project report titled "Arduino Based Child Rescue System From Borewell" is being submitted by M.MOUNIKA (16911A04F1), S.MANICHANDANA (16911A04H3), J.RAKSHIT (16911A04D5) of B.tech IV- I semester of *Electronics & Communication Engineering* is a record bonafide work carried out by them. The results embodied in this report have not been submitted to any other University for the award of any degree.



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Mrs.K.Kavita
(Asst.Professor Dept Of ECE)

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Dr. K. Vasanth
(Professor & HOD Dept Of ECE)

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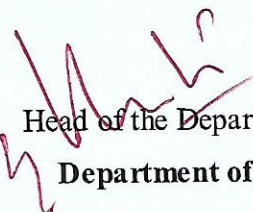
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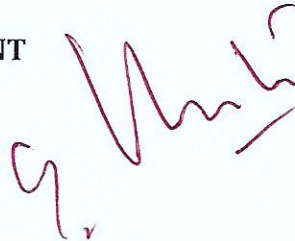
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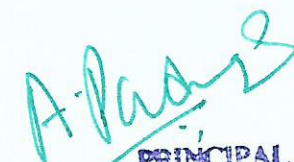
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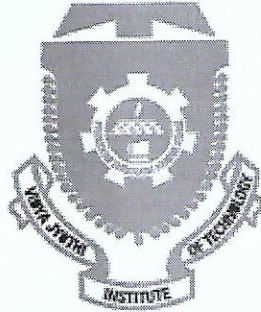

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Mr. V. Sridhar

Assoc. professor Dept of ECE

Signature of the Head of the Department

Professor & HOD Dept of ECE

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A. Kumar

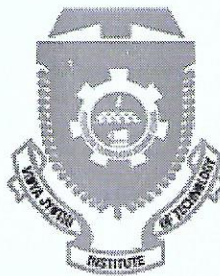
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Department of Electronics and Communication Engineering



CERTIFICATE

This is to certify that the project report titled “ADVANCED TRAFFIC CONTROL WITH MOVABLE ROAD DIVIDER” is being submitted by A.AJAY KUMAR (16911A04J2), S.SAGAR (16911A04N8) , G.SHASHANK(16911A04K4), J.SHEKHAR(16911A04K5) of B.tech IV- I semester of *Electronics & Communication Engineering* is a record bonafide work carried out by them. The results embodied in this report have not been submitted to any other University for the award of any degree.

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Dr. VG. Sivakumar

(Associate Professor, Dept Of ECE)

HEAD OF THE DEPARTMENT
Dr. K. Vasanth

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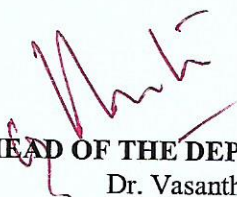


CERTIFICATE


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INTERNAL EXAMINER
Mr. MD. Akram Ahmed
Department of ECE VJIT


HEAD OF THE DEPARTMENT
Dr. Vasanth K.
Department of ECE VJIT

EXTERNAL EXAMINER

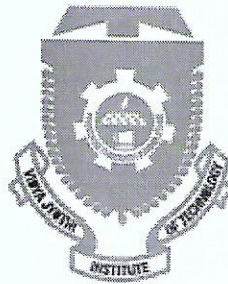

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Dr.P.Ganesan
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(Professor & HOD Dept of ECE)

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Himayatnagar (VIII), C. B. Post
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VJIT, Hyderabad

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Department of ECE
VJIT, Hyderabad

External Examiner

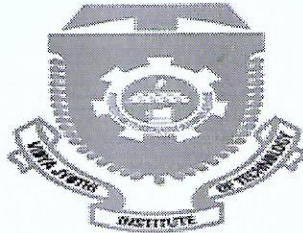
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Department of Electronics And Communication Engineering



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VJIT, Hyderabad

HEAD OF DEPARTMENT

Department of ECE
VJIT, Hyderabad

EXTERNAL EXAMINER

A. Prasanna
PRINCIPAL
Vidya Jyothi Institute of Technology
Himayatnagar (VIII), C B. Post.
Hyderabad-75.

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Department of Electronics and Communication Engineering



CERTIFICATE

This is to certify that the project work report entitled “**PREDICTION OF EQUIPMENT FAILURE USING MACHINE LEARNING**”, being submitted by **Ms. V.SUSHMITHA(16911A04B7)**, **Ms. D.HARSHITHA RAJ(16911A04K1)**, **Ms. P.NAZIMA(16911A04M7)**, **Ms. P.VASANTHI(16911A04N0)** in partial fulfilment of the requirements for the award of the Degree of **BACHELOR OF TECHNOLOGY IN ELECTRONICS AND COMMUNICATION ENGINEERING** by the **JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY**, Hyderabad under our guidance and supervision. The results embodied in this project report have not been submitted to any other University or Institute for the award of any Degree or Diploma.

INTERNAL SUPERVISOR

Ms
Mrs. M. Lalitha Soumya
(Asst. Professor, Dept. of ECE)

HEAD OF THE DEPARTMENT

KVS
Dr. K. Vasanth
(HOD & Professor, Dept. of ECE)

EXTERNAL EXAMINER

A. Lakshmi

PRINCIPAL

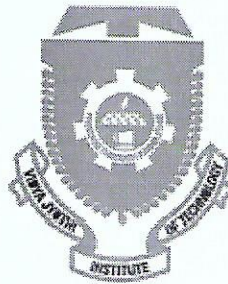
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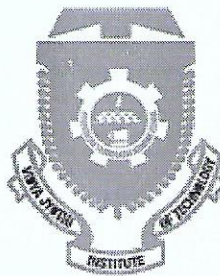
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INTERNAL GUIDE
Dr. VG. Sivakumar

(Associate Professor, Dept Of ECE)

HEAD OF THE DEPARTMENT
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(Professor & HOD Dept Of ECE)

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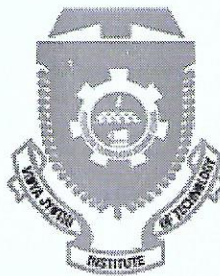
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HEAD OF THE DEPARTMENT
Dr. K. Vasanth

(Professor & HOD Dept Of ECE)

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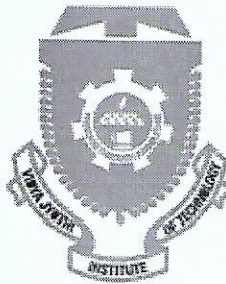
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(Professor Dept of ECE)

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Dr. K. Vasanth
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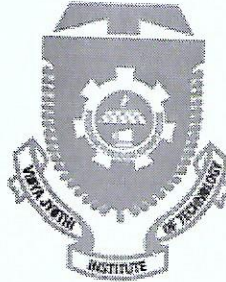
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Department of Electronics and Communication Engineering



CERTIFICATE

This is to certify that the project report titled **“Design and Fabrication of Microstrip Patch Antenna for WLAN Applications”** is being submitted by **K.AKHIL ANAND (17915A0426), V.SAIRAM (16911A0N4), P.ROHITH (16911A04M6), K.NAGARJUNA (16911A04K7)** of B.tech IV- II semester of *Electronics & Communication Engineering* is a record bonafide work carried out by them. The results embodied in this report have not been submitted to any other University for the award of any degree.

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Mr. G.Sreenivasa Rao
(Assoc.Professor Dept of ECE)

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(Professor & HOD Dept of ECE)

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This is to certify that the project entitled “**UNDERWATER WIRELESS OPTICAL COMMUNICATION USING LED/LASER**”, is a bonafide work carried out by **V.APOORVA(16911A04P5), M.MAHESHWAR REDDY(16911A04M2), R.NAVEEN(16911A04N3), K.V.RAHUL (16911A04K8)** submitted to the faculty of Electronics and Communication engineering in partial fulfillment of the requirements for the degree of **BACHELOR OF TECHNOLOGY in ELECTRONICS AND COMMUNICATION ENGINEERING** by the **JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY, Hyderabad**, under our guidance and supervision.

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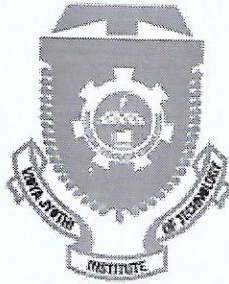
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This is to certify that the project report titled "GAS LEVEL DETECTION AND AUTOMATIC BOOKING USING IOT" is being submitted by N.MAMATHA(17915A0427), K.VISHNU(16911A04K9), T.RAKESH(17915A0431), MD.RAHAMAN(16911A04M0) of B.tech IV- II semester of *Electronics & Communication Engineering* is a record bonafide work carried out by them. The results embodied in this report have not been submitted to any other University for the award of any degree.

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DR.K.VASANTH

(Professor & HOD Dept Of ECE)

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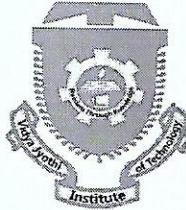

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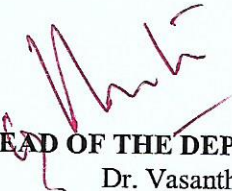


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INTERNAL EXAMINER
Mr. MD. Akram Ahmed
Department of ECE VJIT


HEAD OF THE DEPARTMENT
Dr. Vasanth K.
Department of ECE VJIT

EXTERNAL EXAMINER


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Department of Electronics and Communication Engineering



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(Asst.Professor Dept Of ECE)
Dept Of ECE)

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(Professor & HOD)

EXTERNAL EXAMINER


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Aziznagar (VIII), C. B. Post,
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This is to certify that the project entitled “MULTIRESOLUTION PALM IMAGE FUSION APPROACH FOR IMAGE ENHANCEMENT”, is a bonafied work carried out by Mr.MOHAMMAD ASIF (16911A04L9),Mr.MOHD ABDUL SHAROOQ (16911A04M1),Mr.L.ROHITH(16911A04L3),Mr.S.SANJU(16911A04N5)submitted to the faculty of Electronics and Communication Engineering in partial fulfillment of the requirements for the degree of **BACHELOR OF TECHNOLOGY** in **ELECTRONICS AND COMMUNICATION ENGINEERING** by the **JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY**, Hyderabad, under the guidance and supervision.

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External Examiner


PRINCIPAL
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Mirsamudra (Vill), C. B. Post

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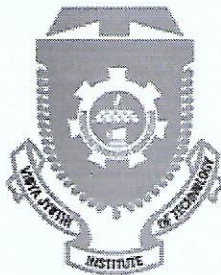
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Vidya Jyothi Institute of Technology
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Department of Electronics and Communication Engineering



CERTIFICATE

This is to certify that the project report titled “IoT Based Road Trip Planner Using Google Maps Platform” is being submitted by **AKUNURI BHAVYA (16911A04L5)**, **MANASA SAMA (16911A04L5)** of B. Tech IV- II semester of *Electronics & Communication Engineering* is a record bonafide work carried out by them. The results embodied in this report have not been submitted to any other University for the award of any degree.

INTERNAL GUIDE,

Mr. Rajendra Prasad
(Assoc. Professor Dept. Of ECE)

HEAD OF THE DEPARTMENT,

Dr. K. Vasanth
(Professor & HOD Dept. Of ECE)

EXTERNAL EXAMINER

A. Prasad
PRINCIPAL
Vidya Jyothi Institute of Technology
Himayatnagar (VIII), C. B. Post
Hyderabad-75

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VJIT, Hyderabad

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VJIT, Hyderabad

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PRINCIPAL
Vidya Jyothi Institute of Technology
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EXTERNAL EXAMINER


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Vidya Jyothi Institute of Technology
Aziznagar (VIII), C. B. Post,
Hyderabad-75.

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VJIT, Hyderabad

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Department of ECE
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Vidya Jyothi Institute of Technology
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CERTIFICATE

This is to certify that the project entitled “MULTIRESOLUTION PALM IMAGE FUSION APPROACH FOR IMAGE ENHANCEMENT”, is a bonafied work carried out by Mr.MOHAMMAD ASIF (16911A04L9),Mr.MOHD ABDUL SHAROOQ (16911A04M1),Mr.L.ROHITH(16911A04L3),Mr.S.SANJU(16911A04N5)submitted to the faculty of Electronics and Communication Engineering in partial fulfillment of the requirements for the degree of **BACHELOR OF TECHNOLOGY** in **ELECTRONICS AND COMMUNICATION ENGINEERING** by the **JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY**, Hyderabad, under the guidance and supervision.

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VJIT, Hyderabad


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VJIT, Hyderabad

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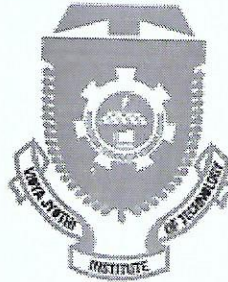

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Hyderabad)

(Aziz Nagar, C.B.Post, Hyderabad -500075)

Department of Electronics and Communication Engineering



CERTIFICATE

This is to certify that the project report titled "GAS LEVEL DETECTION AND AUTOMATIC BOOKING USING IOT" is being submitted by N.MAMATHA(17915A0427), K.VISHNU(16911A04K9), T.RAKESH(17915A0431), MD.RAHAMAN(16911A04M0) of B.tech IV- II semester of *Electronics & Communication Engineering* is a record bonafide work carried out by them. The results embodied in this report have not been submitted to any other University for the award of any degree.

INTERNAL GUIDE


Mrs.M.RENUKA

(Asst.Professor, Dept Of ECE)

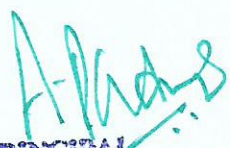

HEAD OF DEPARTMENT

DR.K.VASANTH

(Professor & HOD Dept Of ECE)

EXTERNAL EXAMINER

II


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Miyapur (Vill), C. B. Post

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Signature of the Guide

Department of ECE

VJIT

Signature of the Head of the Department

Department of ECE

VJIT

EXTERNAL EXAMINER

A. K. Ramani
PRINCIPAL
Vidya Jyothi Institute of Technology
Himayatnagar (VIII), C. B. Post
Hyderabad-78

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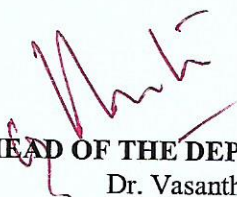


CERTIFICATE


This is to certify that the project work entitled “**HEART DISEASE PREDICTION**” is a bonafied work and carried out by B.RAJKUMAR (16911A04J6), K.ANIRUDH KUMAR REDDY (16911A04L1), N.SHIVA PRASAD (16911A04M3), G.MANEESHWAR REDDY (16911A04Q0) in partial fulfillment of the requirements for the award of the degree of **BACHELOR OF TECHNOLOGY IN ELECTRONICS AND COMMUNICATION ENGINEERING** by the **JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY, Hyderabad**, under our guidance and supervision.

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INTERNAL EXAMINER
Mr. MD. Akram Ahmed
Department of ECE VJIT


HEAD OF THE DEPARTMENT
Dr. Vasanth K.
Department of ECE VJIT

EXTERNAL EXAMINER


PRINCIPAL
Vidya Jyothi Institute of Technology
Himayatnagar (VIII), C. B. Road
Hyderabad-75.

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Department of Electronics and Communication Engineering



CERTIFICATE

This is to certify that the project report titled **“Real Time Smart Attendance Posting Using Image Processing”** is being submitted by **S RAM GANESH(16911A04B1),ORRAY BHAVANA(16911A04M4),V MRUDULA(16911A04B6),V SRUJANA(16911A04B9)** of B.tech IV-II semester of *Electronics & Communication Engineering* is a record bonafide work carried out by them. The results embodied in this report have not been submitted to any other University for the award of any degree.

INTERNAL GUIDE

Dr. M. Vadivel
(Professor Dept Of ECE)

HEAD OF THE DEPARTMENT

Dr. K. Vasanth
(Professor & HOD Dept Of ECE)

EXTERNAL EXAMINER

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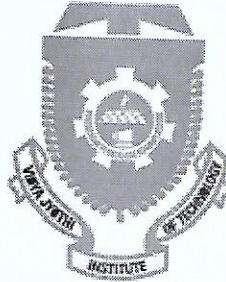
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Department of Electronics and Communication Engineering



CERTIFICATE

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INTERNAL GUIDE

Mr. G.Sreenivasa Rao
(Assoc.Professor Dept of ECE)

HEAD OF THE DEPARTMENT

Dr. K. Vasanth
(Professor & HOD Dept of ECE)

EXTERNAL EXAMINER

PRINCIPAL

Vidya Jyothi Institute of Technology
Himayatnagar (VIII), C. B. Post
Hyderabad-75.

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Department of Electronics and Communication Engineering



CERTIFICATE

This is to certify that the project work report entitled “**PREDICTION OF EQUIPMENT FAILURE USING MACHINE LEARNING**”, being submitted by **Ms. V.SUSHMITHA(16911A04B7)**, **Ms. D.HARSHITHA RAJ(16911A04K1)**, **Ms. P.NAZIMA(16911A04M7)**, **Ms. P.VASANTHI(16911A04N0)** in partial fulfilment of the requirements for the award of the Degree of **BACHELOR OF TECHNOLOGY IN ELECTRONICS AND COMMUNICATION ENGINEERING** by the **JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY**, Hyderabad under our guidance and supervision. The results embodied in this project report have not been submitted to any other University or Institute for the award of any Degree or Diploma.

INTERNAL SUPERVISOR

Ms
Mrs. M. Lalitha Soumya
(Asst. Professor, Dept. of ECE)

HEAD OF THE DEPARTMENT

KVS
Dr. K. Vasanth
(HOD & Professor, Dept. of ECE)

EXTERNAL EXAMINER

A. Lakshmi

PRINCIPAL

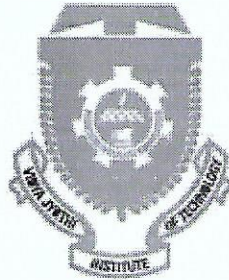
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Department of Electronics and Communication Engineering



CERTIFICATE

This is to certify that the project report titled “WEIGHTED HYBRID MACHINE LEARNING TECHNIQUE TO PREDICT RAINFALL FOR HYDERABAD” is being submitted by P. SHIVA PRIYA (16911A04M8), P. DEEKSHITHA (16911A04M9), T. HARSHITHA (16911A04P1) of B.tech IV- I semester of *Electronics & Communication Engineering* is a record bonafide work carried out by them. The results embodied in this report have not been submitted to any other University for the award of any degree.

INTERNAL GUIDE,

Dr. K. Vasanth
(Professor & HOD Dept Of ECE)

HEAD OF THE DEPARTMENT,

Dr. K. Vasanth
(Professor & HOD Dept Of ECE)

EXTERNAL EXAMINER

A. Prasad

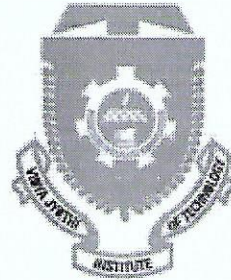
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Dr. K. Vasanth
(Professor & HOD Dept Of ECE)

HEAD OF THE DEPARTMENT,

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Institute Of Technology

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A. Prasad

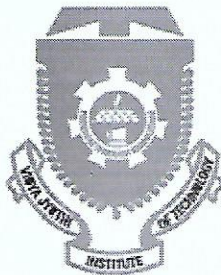
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Department of Electronics and Communication Engineering



CERTIFICATE

This is to certify that the project report titled “IoT Based Road Trip Planner Using Google Maps Platform” is being submitted by **AKUNURI BHAVYA (16911A04L5)**, **MANASA SAMA (16911A04L5)** of B. Tech IV- II semester of *Electronics & Communication Engineering* is a record bonafide work carried out by them. The results embodied in this report have not been submitted to any other University for the award of any degree.


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Mr. Rajendra Prasad
(Assoc. Professor Dept. Of ECE)

HEAD OF THE DEPARTMENT,

Dr. K. Vasanth
(Professor & HOD Dept. Of ECE)

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Department of Electronics and Communication Engineering



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EXTERNAL EXAMINER

A. Lakshmi

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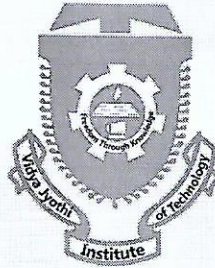
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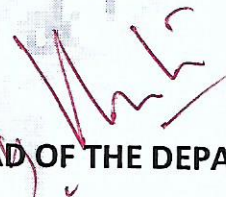
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INTERNAL GUIDE,

Mr.Karna Lakshmi Lokesh

(Asst.Professor Dept Of ECE)



HEAD OF THE DEPARTMENT

Dr.K.Vasanth

(Professor & HOD Dept Of ECE)

EXTERNAL EXAMINER


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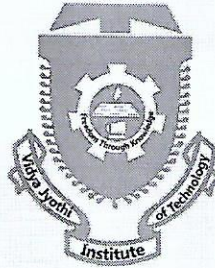
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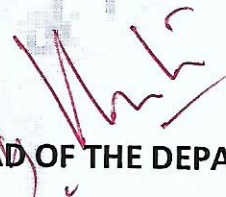
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(Asst.Professor Dept Of ECE)



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Dr.K.Vasanth

(Professor & HOD Dept Of ECE)

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Signature of the Guide

Department of ECE

VJIT

Signature of the Head of the Department

Department of ECE

VJIT

EXTERNAL EXAMINER

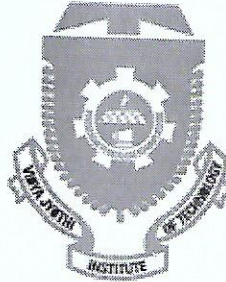
A. Prasad
PRINCIPAL
Vidya Jyothi Institute of Technology
Himayatnagar (VIII), C. B. Post
Hyderabad-78

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Department of Electronics and Communication Engineering



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(Assoc.Professor Dept of ECE)

HEAD OF THE DEPARTMENT

Dr. K. Vasanth
(Professor & HOD Dept of ECE)

EXTERNAL EXAMINER

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Vidya Jyothi Institute of Technology
Himayatnagar (VIII), C. B. Post
Hyderabad-75.

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VJIT, Hyderabad


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External Examiner

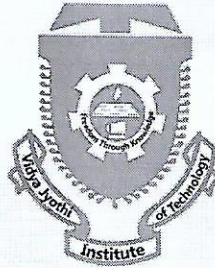

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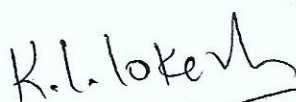
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Department of Electronics and Communication Engineering



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Mr.Karna Lakshmi Lokesh

(Asst.Professor Dept Of ECE)



HEAD OF THE DEPARTMENT

Dr.K.Vasanth

(Professor & HOD Dept Of ECE)

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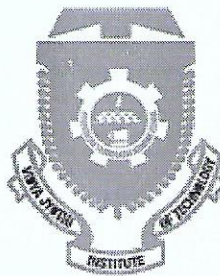
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Department of Electronics and Communication Engineering



CERTIFICATE

This is to certify that the project report titled “ADVANCED TRAFFIC CONTROL WITH MOVABLE ROAD DIVIDER” is being submitted by A.AJAY KUMAR (16911A04J2), S.SAGAR (16911A04N8) , G.SHASHANK(16911A04K4), J.SHEKHAR(16911A04K5) of B.tech IV- I semester of *Electronics & Communication Engineering* is a record bonafide work carried out by them. The results embodied in this report have not been submitted to any other University for the award of any degree.

INTERNAL GUIDE
Dr. VG. Sivakumar

(Associate Professor, Dept Of ECE)

HEAD OF THE DEPARTMENT
Dr. K. Vasanth

(Professor & HOD Dept Of ECE)

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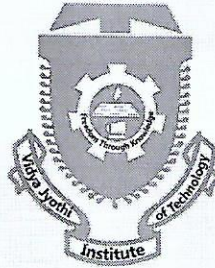
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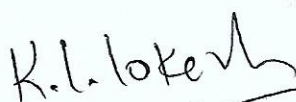
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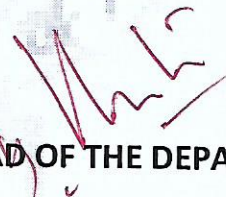
This is to certify that the project report titled **“Credit Card Fraud Detection Using Machine Learning”** is being submitted by P.V.SAI SUMANTH (16911A04N1), R.KARTHIK GOUD (16911A04N2), SHRI DEVESH RAJ KANIKARAM (16911A04N7), T.HRITHIK (16911A04N9) of B.Tech IV- II semester of *Electronics & Communication Engineering* is a record bonafide work carried out by them. The results embodied in this report have not been submitted to any other University for the award of any degree.



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(Asst.Professor Dept Of ECE)



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Dr.K.Vasanth

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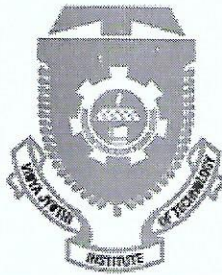
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This is to certify that the project report titled **“MATRIX UI ENHANCEMENT- NETWORK DATA PROCESSING AND ANALYTICS”** is being submitted by **THAMMALI SINDHU (16911A04P0)** of B.tech IV-I semester of *Electronics & Communication Engineering* is a record bonafide work carried out by them. The results embodied in this report have not been submitted to any other University for the award of any degree.

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(Professor Dept Of ECE)

Dr. K. Vasanth
(Professor & HOD Dept Of ECE)

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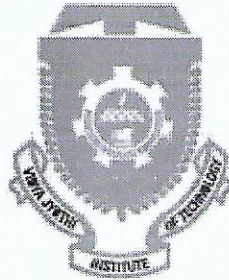
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This is to certify that the project report titled “WEIGHTED HYBRID MACHINE LEARNING TECHNIQUE TO PREDICT RAINFALL FOR HYDERABAD” is being submitted by P. SHIVA PRIYA (16911A04M8), P. DEEKSHITHA (16911A04M9), T. HARSHITHA (16911A04P1) of B.tech IV- I semester of *Electronics & Communication Engineering* is a record bonafide work carried out by them. The results embodied in this report have not been submitted to any other University for the award of any degree.

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Institute Of Technology

EXTERNAL EXAMINER

A. Prasad

PRINCIPAL
Vidya Jyothi Institute of Technology
Himayatnagar (VIII), C. B. Post
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This is to certify that the project work entitled **“SAFETY IMPROVEMENT OF FISHERMEN USING ARDUINO UNO”** is a bonafide work carried out by Mr.V.Mahesh (16911A04P3), Mr.C.Sai Kumar (16911A04K0), Mr.K.Anil Kumar (15911A0472), Mr.M Sharath Chandra (16911A04L4) in partial fulfillment of the requirements for the award of Degree of **BACHELOR OF TECHNOLOGY IN ELECTRONICS AND COMMUNICATION ENGINEERING** by the **JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY, HYDERABAD**, under the guidance and supervision.

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PRINCIPAL
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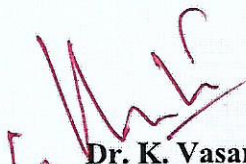
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This is to certify that the project report titled “**FOOD STORAGE MONITORING AND SERVING PEOPLE USING IOT**” is being submitted by **V.SAI PRIYA (16911A04P4), P. SUSHMA REDDY (16911A04P9), Y. KARTHIK REDDY (16911A04P7), E.RAJ KUMAR(16915A0418)** of B.tech IV- I semester of Electronics & Communication Engineering is a record bonafide work carried out by them. The results embodied in this report have not been submitted to any other University for the award of any degree.

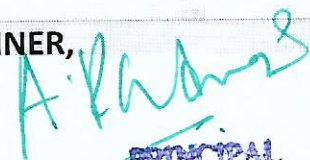
INTERNAL GUIDE,


Mrs.C.H.S.N Sirisha Devi
(Asst.Professor Dept Of ECE)

HEAD OF THE DEPARTMENT,


Dr. K. Vasanth
(Professor & HOD Dept Of ECE)

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PRINCIPAL
Vidya Jyothi Institute of Technology
Munimayyana (VIII), C. B. Post
Hyderabad-75.

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This is to certify that the project entitled “**UNDERWATER WIRELESS OPTICAL COMMUNICATION USING LED/LASER**”, is a bonafide work carried out by **V.APOORVA(16911A04P5), M.MAHESHWAR REDDY(16911A04M2), R.NAVEEN(16911A04N3), K.V.RAHUL (16911A04K8)** submitted to the faculty of Electronics and Communication engineering in partial fulfillment of the requirements for the degree of **BACHELOR OF TECHNOLOGY in ELECTRONICS AND COMMUNICATION ENGINEERING** by the **JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY, Hyderabad**, under our guidance and supervision.

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Department of ECE

VJIT

Signature of the Head of the Department

Department of ECE

VJIT

EXTERNAL EXAMINER

A. Prasad
PRINCIPAL
Vidya Jyothi Institute of Technology
Himayatnagar (VIII), C. B. Post
Hyderabad-78

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This is to certify that the project work entitled “COAL MINE ACCIDENTS DETECTION AND AUTOMATION SYSTEM ” is a bonafied work carried out by M. AMBIKA (16911A04L8), C. CHANDRA SAI (16911A04J9), V.SRIDHAR (16911A04P6), M. MARUTHI SAI RAJ (16911A04L6) in partial fulfillment of the requirements for the award of degree of BACHELOR OF TECHNOLOGY IN ELECTRONICS AND COMMUNICATION ENGINEERING by the JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY, Hyderabad, under our guidance and supervision.

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Department of ECE
VJIT, Hyderabad

Head of the Department
Department of ECE
VJIT, Hyderabad

External Examiner

PRINCIPAL
Vidya Jyothi Institute of Technology
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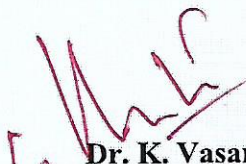
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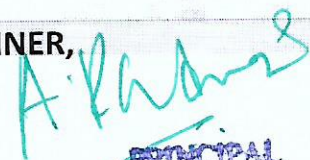
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Dr. K. Vasanth
(Professor & HOD Dept Of ECE)

EXTERNAL EXAMINER,


PRINCIPAL
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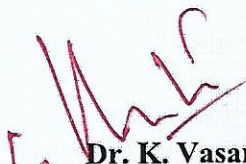
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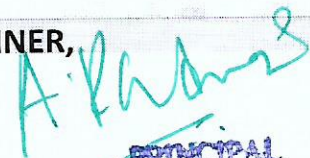
INTERNAL GUIDE,


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(Asst.Professor Dept Of ECE)

HEAD OF THE DEPARTMENT,


Dr. K. Vasanth
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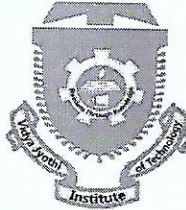
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Munagaynagar (VIII), C. B. Post
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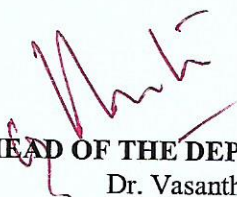


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This is to certify that the project work entitled “**HEART DISEASE PREDICTION**” is a bonafied work and carried out by B.RAJKUMAR (16911A04J6), K.ANIRUDH KUMAR REDDY (16911A04L1), N.SHIVA PRASAD (16911A04M3), G.MANEESHWAR REDDY (16911A04Q0) in partial fulfillment of the requirements for the award of the degree of **BACHELOR OF TECHNOLOGY IN ELECTRONICS AND COMMUNICATION ENGINEERING** by the **JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY**, Hyderabad, under our guidance and supervision.

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INTERNAL EXAMINER
Mr. MD. Akram Ahmed
Department of ECE VJIT


HEAD OF THE DEPARTMENT
Dr. Vasanth K.
Department of ECE VJIT

EXTERNAL EXAMINER


PRINCIPAL
Vidya Jyothi Institute of Technology
Himayatnagar (VIII), C. B. Road
Hyderabad-75.