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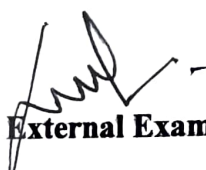
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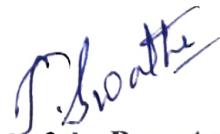
CERTIFICATE




Certified that this project report entitled, "TOWARDS SECURE AND EFFICIENT EQUALITY CONJUNCTION SEARCH OVER OUTSOURCED DATABASES" is the bonafide work of S.SAIKUMAR (18UD1A0526), B.NAVEEN (19UD5A0503), D.UDAYKUMAR (18UD5A0507), of IV Year, CSE in the year 2022 in partial fulfilment of the requirements to award the Degree of Bachelor of Technology in **Computer Science & Engineering** branch of Trinity College of Engineering and Technology.


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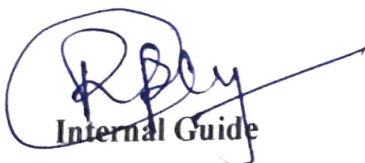
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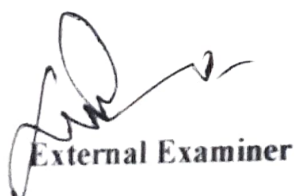
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Certified that this project report entitled, “AN EFFICIENT PRIVACY PRESERVING MESSAGE AUTHENTICATION SCHEME FOR IOT” is the bonafied work of L. DEEPTHI (18UD1A0536), Y. SWETHA (18UD1A0528), G. AKHILA (18UD1A0533), B. LAVANYA (19UD5A0501), of IV Year, CSE in the year 2021 in partial fulfilment of the requirements to award the Degree of Bachelor of Technology in **Computer Science & Engineering** branch of Trinity College of Engineering and Technology.


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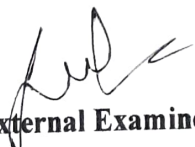
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Certified that this project report entitled, “**IMPROVING SECURITY AND PRIVACY ATTRIBUTE BASED DATA SHARING IN CLOUD COMPUTING**” is the bonafide work of **RAYABARAPU NIKHIL (18UD1A0525), PIRUMALLA RAVINDAR (19UD5A0508)**, of IV Year, CSE in the year 2022 in partial fulfilment of the requirements to award the Degree of Bachelor of Technology in **Computer Science & Engineering** branch of Trinity College of Engineering and Technology.


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Certified that this project report entitled, "**PRIVACY-PRESERVING EFFICIENT VERIFIABLE DEEP PACKET INSPECTION FOR CLOUD ASSISTED MIDDLEBOX**" is the bonafide work of **RATHNA ESHWAR (18UD1A0524), BOLLI SHIVARAM (19UD5A0504), MOHAMMED ASHRAF (18UD1A0538)** of IV Year, CSE in the year 2022 in partial fulfilment of the requirements of award the Degree of Bachelor of Technology in **Computer science & Engineering** branch of Trinity College of Engineering and Technology.

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Certified that this project report entitled, “**SECURE DATA TRANSFER AND DELETION FROM COUNTING BLOOM FILTER IN CLOUD COMPUTING**” is the bonafide work of **KOKKULA SOUMYA (18UD1A0515), KODI SINDHUJA (18UD1A0513), CHELUKALA SANJANA (18UD1A0506)** of IV Year, CSE in the year 2022 in partial fulfilment of the requirements to award the Degree of Bachelor of Technology in **Computer Science & Engineering** branch of Trinity College of Engineering and Technology.


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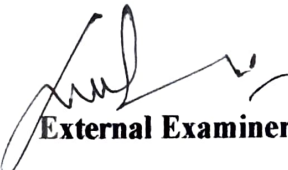
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Certified that this project report entitled, “**BLOCKCHAIN BASED DATA STORAGE WITH PRIVACY AAND AUTHENTICATION IN IOT**” is the bona fide work of **M.MEGHANA (18UD1A0520), A.SREEJA (18UD1A0502), T.THRISHA (18UD1A0527)**, of IV Year, CSE in the year 2021 in partial fulfilment of the requirements to award the Degree of Bachelor of Technology in **Computer Science & Engineering** branch of Trinity College of Engineering and Technology.


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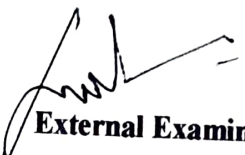
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Certified that this project report entitled, "THRESHOLD MULTI-KEYWORD SEARCH FOR CLOUD-BASED GROUP DATA SHARING" is the bonafied work of P.KRISHNAVENI (18UD1A0523), Ch.MOUNIKA(18UD1A0505), B.SWARNA(19U5A0505), J.ANJALI(18U1A0512) of IV Year, CSE in the year 2021 in partial fulfillment of the requirements to award the Degree of Bachelor of Technology in **Computer Science & Engineering** branch of Trinity College of Engineering and Technology.


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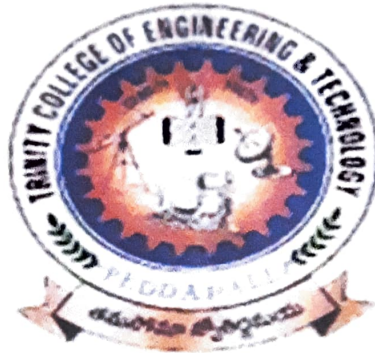
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2018-2022

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Certified that this project report entitled “ACHIEVING PRACTICAL SYMMETRIC SEARCHABLE ENCRYPTION WITH SEARCH PATTERN PRIVACY OVER CLOUD” is the bonafide work of M. SONIA(18UD1A0537), J. SWETHA(18UD1A0511), P. SNEHA (18UD1A0539), of IV Year, CSE in the year 2022 in partial fulfillment of the requirement to award the Degree of Bachelor of Technology in Computer Science & Engineering branch of Trinity College of Engineering and Technology.

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Certified that this project report entitled, “A TRACEABLE AND REVOCABLE CIPHERTEXT-POLICY ATTRIBUTE-BASED ENCRYPTION SCHEME BASED ON PRIVACY PROTECTION” is the bonafide work of MADARAPU KAVYA (18UD1A0517), GURRALA SRAVANI (18UD1A0509), KOLUGURI SWARNA LEKHA (18UD1A0516) of IV Year, CSE in the year 2022 in partial fulfilment of the requirements to award the Degree of Bachelor of Technology in **Computer Science & Engineering** branch of Trinity College of Engineering and Technology.


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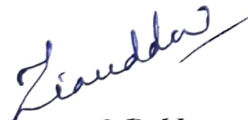
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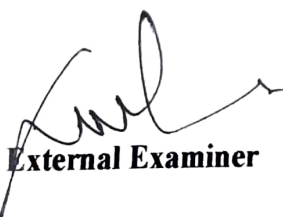
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Certified that this project report entitled, "AN EFFICIENT SPAM DETECTION TECHNIQUE FOR IOT USING MACHINE LEARNING" is the bonafide work of NAJMA TARANNUM(18UD1A0521), ADAPA SOWMYA(18UD1A0501), CHINNAKA MAMATHA(18UD1A0507) of IV Year, CSE in the year 2022 in partial fulfillment of the requirement to award the Degree of Bachelor of Technology in Computer Science & Engineering branch of Trinity College of Engineering and Technology.


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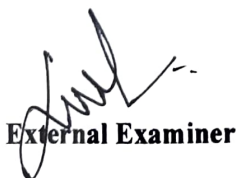
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Certified that this project report entitled, "SEMANTICS OF DATA MINING SERVICES IN CLOUD COMPUTING" is the bonafide work of **THAMMISHETTI VAMSHI (19UD5A0509)**, **BOUDDUNA RAJESHKUMAR (17UD1A0505)**, **KANISETTI SAIKIRAN (17UD1A0539)** of IV Year, CSE in the year 2022 in partial fulfilment of the requirements to award the Degree of Bachelor of Technology in **Computer Science & Engineering** branch of Trinity College of Engineering and Technology.


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Certified that this project report entitled “**IDENTIFICATION OF MALICIOUS INJECTION ATTACKS IN DENSE RATING AND CO-VISITATION BEHAVIORS**” is the Bonafide work of **MANDLA SAISRI (18UD1A0519), GADDAM AKHILA (18UD1A0508), SUMAYYA AZIZI (18UD1A0540),** of IV Year CSE in the Year 2022 in the partial fulfillment of the requirements to award the Degree of Bachelor of Technology in **Computer Science & Engineering** Branch at Trinity College of Engineering and Technology.

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CERTIFICATE

This is to certify that the Project report entitled **“GRID-CONNECTED WIND-PHOTOVOLTAIC COGENERATION USING BACK-TO-BACK VOLTAGE SOURCE CONVERTERS”** that is being submitted by

E.SHRUTHI (19UD5A0204)

K.VAISHNAVI (18UD1A0208)

HEENA (19UD5A0205)

U.RAHUL (18UD1A0220)

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The results embodied in this report have not been submitted to any other University or Institute for the award of any degree.

k. [Signature]

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Head of the Department

Department of EEE

k. [Signature]

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P. Bangath

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M. Ganesan

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CERTIFICATE

This is to certify that the project entitled “ **A HYBRID DIESEL, WIND-PV-BASED ENERGY GENERATION SYSTEM WITH BRUSHLESS GENERATOR** ” that is being submitted by

P.ABHILASH (19UD5A0252)
B. MADHUSHA (19UD5A0217)
M.VEERANSAI (19UD5A0244)
S.RAHUL (19UD5A0263)

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This is to certify that the project entitled **"IMPROVEMENT OF POWER QUALITY OF A GRID CONNECTED WIND ENERGY SYSTEM USING D-STATCOM"** that is being submitted by


B KEERTHI YADAV (19UD5A0218)

O SUPRAJA (19UD5A0251)

A SUMANTH (19UD5A0213)

In partial fulfillment for the award of **BACHELOR OF TECHNOLOGY** in **ELECTRICAL AND ELECTRONICS ENGINEERING** is record of bonafied work carried out by them under our guidance and supervision.

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This is to certify that the project entitled "POWER FACTOR CORRECTION AND POWER QUALITY IMPROVEMENT IN BLDC MOTOR DRIVE USING SEPIC CONVERTER " that is being submitted by

J.POOJA (19UD5A0206)

R.ANJALI (18UD1A0217)

K.JYOTHI (18UD1A0209)

M.HARISH (18UD1A0211)

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This is to certify that the project entitled **“POWER QUALITY IMPROVEMENT USING D-STATCOM IN DISTRIBUTION SYSTEM”** is being submitted by

E. MOHAN (19UD5A0221)

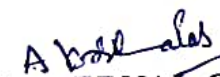
S. RAHULTEJA (19UD5A0259)

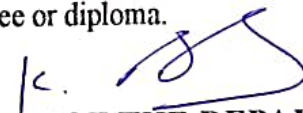
K. VENKATESHWARLU (19UD5A0233)

J. SANDEEP (19UD5A0230)

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This is to certify that the project entitled **“STANDALONE PHOTOVOLTAIC WATER PUMPING SYSTEM USING INDUCTION MOTOR DRIVE WITH REDUCED SENSORS”** that is being submitted by

K MAHESH	(19UD5A0235)
G SAI PRIYA	(19UD5A0225)
SABA AZEEM	(19UD5A0257)
M KARTHIKEYA	(19UD5A0243)
K LAXMAN	(19UD5A0232)

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This is to certify that the project entitled **"THE NEW TOPOLOGY OF MULTILEVEL INVERTER WITH REDUCED NUMBER OF SWITCHES"** that is being submitted by

E ARUNDHATHI	(19UD5A0222)
B PRANEETH	(19UD5A0215)
A SUSHIMA	(19UD5A0212)
K BHARATH	(19UD5A0236)

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This is to certify that the project entitled "**CASCADE MULTILEVEL INVERTER BASED POWER AND SIGNAL TRANSMISSION FOR ELECTRICAL VEHICLES**" that is being submitted by

S. SRIDARUDU	(19UD5A0260)
K. LASYA PRIYA	(19UD5A0237)
T. GEETHA	(19UD5A0265)
K. VISHNUVARDHAN	(19UD5A0240)

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This is to certify that the Project report entitled **“OFF-BOARD ELECTRIC VEHICLE BATTERY CHARGER USING PV ARRAY”** that is being submitted by

M.PRASHANTH	(19UD5A0250)
S.VENUGOPAL	(19UD5A0258)
T.VIJAYRAGHAVA	(19UD5A0267)
G.AVINASH	(19UD5A0224)
S.AJAY KUMAR	(19UD5A0262)

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CERTIFICATE

This is to certify that the project entitled "**IMPLEMENTATION OF SOLAR PV-BATTERY AND DIESEL GENERATOR BASED ELECTRIC VEHICLE CHARGING STATION**" that is being submitted by

G RAJKUMAR	(19UD5A0226)
K SAIRAM	(19UD5A0238)
G AJAY	(19UD5A0228)
V ANIL	(19UD5A0268)
K VINAY KUMAR	(19UD5A0231)

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INTERNAL GUIDE

Mr. M. SHIVA KUMAR M.Tech
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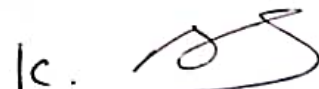
This is to certify that the project entitled **“MODELLING AND CONTROL DESIGN FOR VARIABLE SPEED WIND TURBINE ENERGY SYSTEM”** that is being submitted by

R SAI KUMAR	(19UD5A0256)
T SUNDER	(19UD5A0266)
M RAJKUMAR	(19UD5A0248)
K MADHAV	(19UD5A0241)
P SRIKANTH	(19UD5A0253)

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CERTIFICATE

This is to certify that the project entitled **“DESIGN AND CONTROL OF MICRO-GRID FED BY RENEWABLE ENERGY GENERATING SOURCES”** that is being submitted by

R LOKESH	(19UD5A0209)
K ANUSHA	(18UD1A0222)
K SAI TEJA	(19UD5A0207)
M RASHI	(18UD1A0214)

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CERTIFICATE

This is to certify that the project entitled **“MODELLING DESIGN AND CONTROL OF A STANDALONE HYBRID PV-WIND MICRO-GRID SYSTEM”** that is being submitted by

G. HARMITHA (19UD5A0223)

G. SANTHOSH (19UD5A0229)

M. VAMSHI (19UD5A0247)

M. RAMYA (19UD5A0255)

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This is to certify that the project entitled **"SINGLE PHASE BOOST DC-LINK INTEGRATED CASCADED MULTILEVEL INVERTER FOR PV APPLICATIONS"** that is being submitted by

S. PRAVALIKA (19UD5A0261)

K. SHIVANI (19UD5A0239)

G. RAJENDAR (19UD5A0227)

K. SAIKUMAR (19UD5A0234)

In partial fulfillment for the award of **BACHELOR OF TECHNOLOGY** in **ELECTRICAL AND ELECTRONICS ENGINEERING** is record of bonafied work carried out by them under our guidance and supervision.

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This is to certify that the project entitled “**ANALYSIS OF THE IMPACT OF ELECTRIC VEHICLE CHARGING STATION ON POWER QUALITY ISSUES**” that is being submitted by

M.THARUN	(19UD5A0246)
P MANIDEEP	(19UD5A0254)
B SHIVANI	(19UD5A0216)
M SANJAY	(19UD5A0245)

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K. L. Srinivas

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Date _____

CERTIFICATE

This is to certify that the project entitled **“ MAXIMUM POWER POINT TRACKING WITH ARTIFICIAL NEURAL NETWORK ”** that is being submitted by

E RAMYA	(19UD5A0220)
B VENKAT SAI	(19UD5A0214)
S MADHUKAR	(19UD5A0264)
M SRIVANI	(19UD5A0249)

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This is to certify that the project entitled “**ENERGY MANAGEMENT SYSTEM FOR SMALL SCALE HYBRID WIND SOLAR BATTERY BASED MICRO GRID**” that is being submitted by

A KARTHIK	(19UD5A0201)
M SHRAVYA	(18UD1A0213)
R RISHITHA	(19UD5A0210)
R HEMANTH	(18UD1A0224)
A SAIKIRAN	(18UD5A0201)

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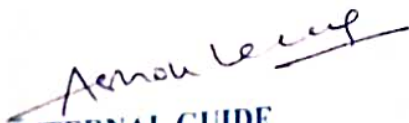
CERTIFICATE

This is to certify that the Project report entitled **"A VOLTAGE REGULATOR FOR POWER QUALITY IMPROVEMENT IN LOW VOLTAGE DISTRIBUTION GRIDS"** that is being submitted by

K.MANIK RAJ	(18UD1A0207)
CH.SHIVA KUMAR	(19UD5A0202)
R.RAKESH	(18UD1A0218)
M.HEMANTH	(18UD1A0223)
M.SAMATHA	(16UD1A0229)

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This is to certify that the Project report entitled "**PROTECTION STRATEGY FOR WIRELESS CHARGING ELECTRIC VEHICLES**" that is being submitted by

G. VENNELA (18UD1A0204)

E. SAHITHYA (19UD5A0203)

B. HARIKA (18UD1A0221)

L. SAITEJA (18UD1A0210)

In partial fulfillment for the award of **BACHELOR OF TECHNOLOGY** in **ELECTRICAL AND ELECTRONICS ENGINEERING** is a record of bonafied work carried out by him under our guidance and supervision.

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This is to certify that the Project report entitled "**AN EFFICIENT INDUCTIVE POWER TRANSFER TOPOLOGY FOR ELECTRIC VEHICLE BATTERY CHARGING**" that is being submitted by

S.MAHESH	(19UD5A0211)
J.SANDYA	(18UD1A0205)
D.RAJ KUMAR	(18UD1A0203)
K.SUJATHA	(18UD1A0206)
I.PRANAY	(18UD5A0215)

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This is to certify that the major project report entitled "**SOLDIER HEALTH STATUS AND POSITION TRACKING SYSTEM USING IOT**"

is being submitted By


G.SWETHA (18UD1A0409)

A.SHIRISHA (18UD1A0401)

B.DEEPIKA (18UD1A0404)

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This is to certify that the mini project report entitled "**FULLY AUTOMATED SMART CROP FIELD PROTECTION SYSTEM AGAINST NUMEROUS BEHAVIOUR OF WILD ANIMALS**" is being submitted by

R.SATHWIKA	(18UD1A0430)
A.AKHILA	(18UD1A0403)
G.PRANATHI	(18UD1A0426)
S.SUMANYA	(18UD1A0431)

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This is to certify that the major project report entitled **“IOT BASED FLOOD MONITORING AND SMS ALERTING SYSTEM”** is being

Submitted by

J. HIMA BINDU (18UD1A0412)

G. ARCHANA (18UD1A0411)

CH. SAI DIVYA (18UD1A0407)

B. ANANTH KUMAR (18UD1A0422)

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D. Srinivasulu Reddy
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M. Zareen
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Certified that this project report entitled, "**SUN TRACKING SOLAR SYSTEM USING ARDUINO NANO**" is the bonafide work of B.SAIPRIYA(19UD5A0402), CH.SHRAVANI(19UD5A0403),S.AISHWARYA(19UD5A0410),P.SANDHYA (19UD5A0415) of IV Year, ECE in the year 2022 in partial fulfillment of the requirements to award the Degree of Bachelor of Technology in Electronics & Communication Engineering branch of Trinity College of Engineering and Technology.


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This is to certify that the major project report entitled "**Solar Powered Automated Multi Tasking Agriculture Robot**" is being submitted By

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A .Komalatha	(19UD5A0401)
O.Ravalika	(19UD5A0408)
D.Anil	(18UD1A0408)
U.Raghu	(18UD1A0420)

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We Certified that this project report entitled, "**WOMEN SAFETY SYSTEM**" is the bonafied work of **B.SRAVANI (18UD1A0421)**, **R.SOWMYA (18UD1A0418)**, **D.SHIRISHA (18UD1A0425)**, **K.BHAGYA LAXMI (18UD1A0428)**, **R.THIRUMLA (18UD1A0417)** of IV Year, ECE in the year 2022 in partial fulfillment of the requirements to award the Degree of Bachelor of Technology in **Electronics and communication Engineering** branch of Trinity College of Engineering and Technology.


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This is to certify that the major project report entitled "**SAMART PARKING SOLUTIONS FOR ON-STREET AND OFF-STREET PARKING**" is being submitted By

A.MANISHA	(18UD1A0402)
B.HARISH	(18UD1A0406)
P.SANKEERTHANA	(18UD1A0416)
CH.VIJAYA SRI	(18UD1A0423)
CH.VISHNU SAI	(18UD1A0424)

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This is to certify that the major project report entitled **“VEHICLE TO VEHICLE COMMUNICATION USING DSRC AND SAFETY AUTOMATION”**

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M.AKANKSHA (18UD1A0414)

S.SRAVANI (18UD1A0419)

O.NARESH (18UD1A0415)

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This is to certify that the mini project report entitled
"FOOT STEP POWER GENERATION USING PIEZO ELECTRIC SENSOR"
is being submitted

BY

G. SHIRISHA	(19UD5A0404)
J. PRIYANKA	(19UD5A0405)
P. TEJA SRI	(19UD5A0416)
B. SANDEEP	(18UD1A0405)
M. VARA PRASAD	(18UD1A0413)

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Certified that this project report entitled, "**PREGNANCY HEALTHCARE MONITORING SYSTEM BY USING ARTIFICIAL INTELLIGENCE**" is the bonafide work of A.LAXMI PRASANNA(19UD5A0412), B.AKHILA(19UD5A0413), S.SRI HARIKA (19UD5A0409), K.ANAMIKA (19UD5A0406), K.ANUSHA (18UD1A0429) of IV Year, ECE in the year 2021 in partial fulfillment of the requirements to award the Degree of Bachelor of Technology in Electronics & Communication Engineering branch of Trinity College of Engineering and Technology.


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Head of the Department


External Examiner


Principal

CERTIFICATE

This is to certify that the project work entitled "A STUDY ON ORGANIZATIONAL CULTURE WITH SPECIAL REFERENCE TO OCTAPACE CULTURE" has been successfully carried out by Ms. GURJALA SUSMITHA Student of MBA in TRINITY COLLEGE OF ENGINEERING AND TECHNOLOGY, PEDDAPALLI bearing I.T.NO: 20UD1E0009 partial fulfillment for the award the degree in Master of Business Administration in Jawaharlal Nehru Technological University, Hyderabad 2020-22.



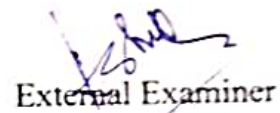
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HOD



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External Examiner


CERTIFICATE

This is to certify that the project work entitled "A STUDY ON SAFETY AND WELFARE MEASURES FOR WORKMEN" has been successfully carried out by Ms. NERUVATLA MANASA Student of MBA in TRINITY COLLEGE OF ENGINEERING AND TECHNOLOGY, PEDDAPALLE bearing U.E.NO: 200011(0010) partial fulfillment for the award the degree in Master of Business Administration in Jyotsnabai Nehrui Technological University, Hyderabad 2020-22.


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(R. Perender)

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This is to certify that the project work, entitled "A STUDY ON STRESS MANAGEMENT AMONG EMPLOYEES" has been successfully carried out by Mr. KOMMA KUMAR Student of MBA in TRINITY COLLEGE OF ENGINEERING AND TECHNOLOGY, PEDDAPALLI bearing R.T.NO: 200D180022 partial fulfillment for the award the degree in Master of Business Administration in Jawaharal Nehru Technological University, Hyderabad 2021-22.



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This is to certify that the project work entitled "A STUDY ON GROWTH STRATEGIES AND LONG TERM FINANCIAL PLANNING" has been successfully carried out by Mr. KATHERLA ANJIAH Student of MBA in TRINITY COLLEGE OF ENGINEERING AND TECHNOLOGY, PEDDAPALLI bearing H.T.NO: 20UD1E0019 partial fulfillment for the award the degree in Master of Business Administration in Jawaharlal Nehru Technological University, Hyderabad 2020-22.



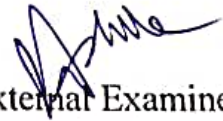
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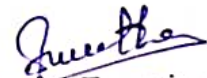
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This is to certify that the project work entitled "A STUDY ON IMPACT OF GROWTH OF INDIAN ONLINE TRADING INDUSTRY" has been successfully carried out by Mr. JAKKULA RAJKUMAR Student of MBA in TRINITY COLLEGE OF ENGINEERING AND TECHNOLOGY, PEDDAPALLI bearing H.T.NO: 20UD1E0012 partial fulfillment for the award the degree in Master of Business Administration in Jawaharlal Nehru Technological University, Hyderabad 2020-22.



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This is to certify that the project work entitled "A STUDY ON ROLE OF EMPLOYEE AND EMPLOYEE MANAGEMENT IN RETAIL SECTOR" has been successfully carried out by Ms. KUKKA SNEHA Student of MBA in TRINITY COLLEGE OF ENGINEERING AND TECHNOLOGY, PEDDAPALLI bearing H.T.NO: 20UD1E0078 partial fulfillment for the award the degree in Master of Business Administration in Jawaharlal Nehru Technological University, Hyderabad 2020-22.



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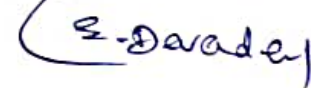
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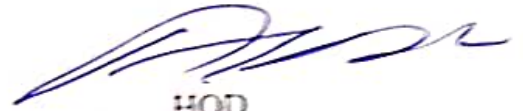


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This is to certify that the project work entitled "A STUDY ON EFFECTS ON INVENTORY MANAGEMENT ON PROFITABILITY" has been successfully carried out by Mr. JAKKAM AJAY KUMAR Student of MBA in TRINITY COLLEGE OF ENGINEERING AND TECHNOLOGY, PEDDAPALLI bearing H.T.NO: 20UD1E0011 partial fulfillment for the award the degree in Master of Business Administration in Jawaharlal Nehru Technological University, Hyderabad 2020-22.



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This is to certify that the project work entitled "A STUDY ON QUALITY OF WORK LIFE OF MIDDLE MANAGEMENT" has been successfully carried out by Ms. KAVATI KAVYASRI Student of MBA in TRINITY COLLEGE OF ENGINEERING AND TECHNOLOGY, PEDDAPALLI bearing H.T.NO: 20UD1E0020 partial fulfillment for the award the degree in Master of Business Administration in Jawaharlal Nehru Technological University, Hyderabad 2020-22.



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This is to certify that the project work entitled "A STUDY ON EMPLOYEE ON BOARDING PROCESS" has been successfully carried out by Ms. NEHA Student of MBA in TRINITY COLLEGE OF ENGINEERING AND TECHNOLOGY, PEDDAPALLI bearing H.T.NO. 202011A031 partial fulfillment for the award the degree in Master of Business Administration in Jawaharal Nehru Technological University, Hyderabad 2020-22.



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This is to certify that the project work entitled "A STUDY ON THE ROLE OF FOREIGN INSTITUTIONAL INVESTORS IN INDIAN STOCK MARKETS" has been successfully carried out by Mr. ITHA RAKESH Student of MBA in TRINITY COLLEGE OF ENGINEERING AND TECHNOLOGY, PEDDAPALLI bearing H.T.NO: 20UD1E0010 partial fulfillment for the award the degree in Master of Business Administration in Jawaharlal Nehru Technological University, Hyderabad 2020-22.



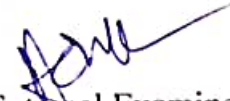
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This is to certify that the project work entitled "A STUDY ON EMPLOYEES PERSONALITY" has been successfully carried out by Ms. HAJRA NOUSHEEN Student of MBA in TRINITY COLLEGE OF ENGINEERING AND TECHNOLOGY, PEDDAPALLI bearing H.T.NO: 20UD1E0073 partial fulfillment for the award the degree in Master of Business Administration in Jawaharlal Nehru Technological University, Hyderabad 2020-22.



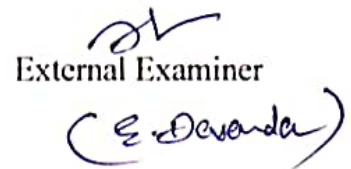
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This is to certify that the project work entitled "A STUDY ON EMPLOYEE VIEW OF JOB SATISFACTION IN AN ORGANIZATION" has been successfully carried out by Ms. KARANGALA PRATHYUSHA Student of MBA in TRINITY COLLEGE OF ENGINEERING AND TECHNOLOGY, PEDDAPALLI bearing H.T.NO: 20UD1E0017 partial fulfillment for the award the degree in Master of Business Administration in Jawaharlal Nehru Technological University, Hyderabad 2020-22.



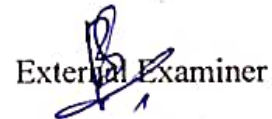
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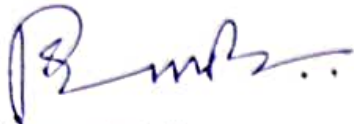
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This is to certify that the project work entitled "A STUDY ON THE EFFECT OF RECEIVABLES MANAGEMENT" has been successfully carried out by Mr. SHANIGARAPU RITHVIK TEJA Student of MBA in TRINITY COLLEGE OF ENGINEERING AND TECHNOLOGY, PEDDAPALLI bearing H.T.NO: 20UDIE0068 partial fulfillment for the award the degree in Master of Business Administration in Jawaharlal Nehru Technological University, Hyderabad 2020-22.



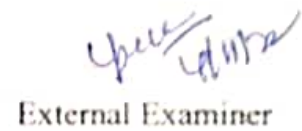
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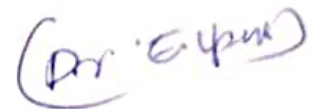
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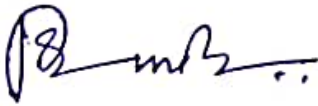


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This is to certify that the project work entitled "A STUDY ON THE RELEVANCE OF WORKING CAPITAL MANAGEMENT" has been successfully carried out by Mr. SHAIK NIHAL Student of MBA in TRINITY COLLEGE OF ENGINEERING AND TECHNOLOGY, PEDDAPALLI bearing H.T.NO: 20UDIE0067 partial fulfillment for the award the degree in Master of Business Administration in Jawaharlal Nehru Technological University, Hyderabad 2020-22.



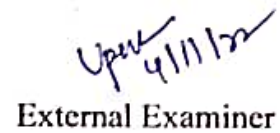
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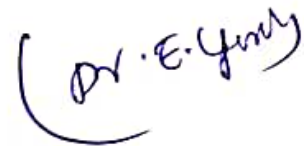
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(Dr. E. Yash)

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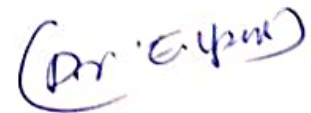
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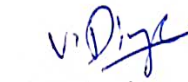
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This is to certify that the project work entitled "A STUDY ON IMPROVE EMPLOYEE MORALE THROUGH MOTIVATION IN AUTOMOBILE SECTOR" has been successfully carried out by Mr. DARAPANENI BHOOMA NAIDU Student of MBA in TRINITY COLLEGE OF ENGINEERING AND TECHNOLOGY, PEDDAPALLI bearing H.T.NO: 20UD1E0056 partial fulfillment for the award the degree in Master of Business Administration in Jawaharlal Nehru Technological University, Hyderabad 2020-22.


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This is to certify that the project work entitled "A STUDY ON EMPLOYEE JOB SATISFACTION IN RETAIL INDUSTRY" has been successfully carried out by Mr. NASHRA KOUSAR Student of MBA in TRINITY COLLEGE OF ENGINEERING AND TECHNOLOGY, PEDDAPALLI bearing H.T.NO: 20UD1E0029 partial fulfillment for the award the degree in Master of Business Administration in Jawaharlal Nehru Technological University, Hyderabad 2020-22.



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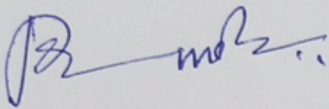
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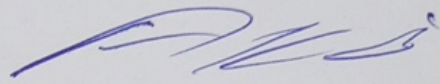
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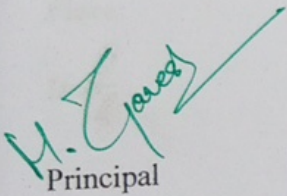
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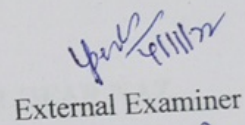
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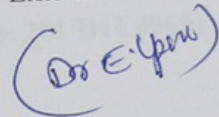
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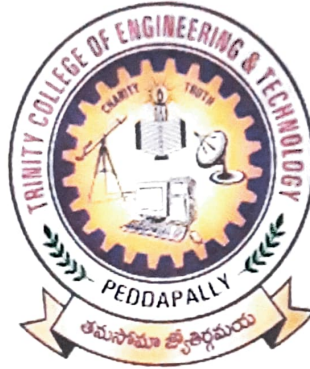


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Certified that this project report entitled, "SPAMMER DETECTION AND FAKE USER IDENTIFICATION ON SOCIAL NETWORKS" is the bonafied work of AISHA SIDDIQA(19UD1A0503),AVULA SHRUTHI(19UD1A0505), RAMAGIRI SWETHA(19UD1A0531),KANTHALA PRAVALIKA(18UD1A0534) of IV Year, CSE in the year 2023 in partial fulfillment of the requirements to award the Degree of Bachelor of Technology in **Computer Science & Engineering** branch of Trinity College of Engineering and Technology.

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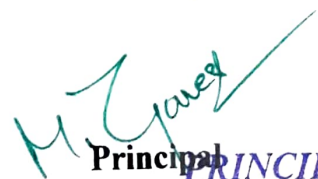


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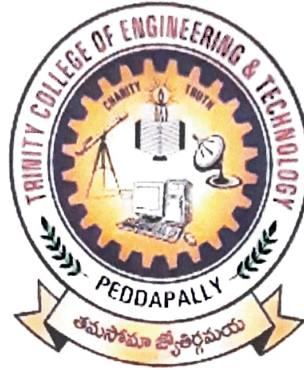

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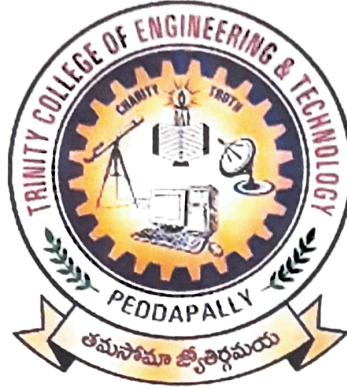
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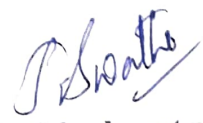
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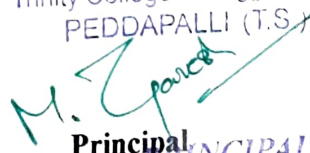


Certified that this project report entitled, “USER BEHAVIOR PREDICTION OF SOCIAL HOTSPOTS BASED ON MULTI MESSAGE INTERACTION AND NEURAL NETWORK” is the bonafide work of **AFREEN KOUSAR (19UD1A0501), A. VASANTHI(19UD1A0543), K.TEJASWINI(19UD1A0518),J SOWMYA SRI (19UD1A0510)** of IV Year, CSE in the year 2023 in partial fulfillment of the requirements to award the Degree of Bachelor of Technology in **Computer Science & Engineering** branch of Trinity College of Engineering and Technology.


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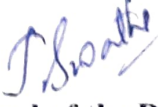
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Certified that this project report entitled, "**WEB VULNERABILITY DETECTION**" is the bonafied work of **KAMERA LAXMI , NAYINI LAXMI PRASANNA & SIRISHETTI SWETHA** of IV Year, CSE in the year 2023 in partial fulfillment of the requirements to award the Degree of Bachelor of Technology in **Computer Science & Engineering** branch of Trinity College of Engineering and Technology.


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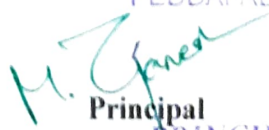


Certified that this project report entitled, “NAÏVE BAYES CLASSIFIER FOR PREDICTING NOVEL CORONA VIRUS” is the bonafied work of Dhara Deepika (19UD1A0506), Fouzia Siddiqua (19UD1A0544), P. Sindhu (19UD1A0530) of IV Year, CSE in the year 2019 in partial fulfillment of the requirements to award the Degree of Bachelor of Technology in **Computer Science & Engineering** branch of Trinity College of Engineering and Technology.


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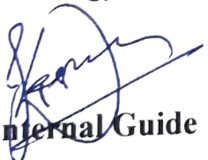
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Certified that this project report entitled, “**REALTIME OBJECT DETECTION USING YOLO** ” is the bonafide work of **YELLANKI PRASHANTH (19UD1A0541), KANUMALLA SHIVARAJ KUMAR (19UD1A0513), KOLAGANI PRAKASH (20UD5A0504), KORE AKHIL (20UD5A0506)** of IV Year, CSE in the year 2023 in partial fulfillment of the requirements to award the Degree of Bachelor of Technology in **Computer Science & Engineering** branch of Trinity College of Engineering and Technology.


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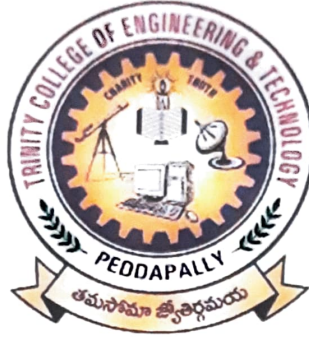
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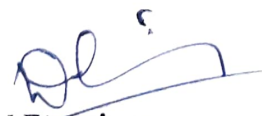
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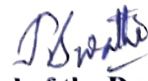
CERTIFICATE




Certified that this project report entitled, “**LEVERAGING CNN & TRANSFER LEARNING FOR VISION-BASED HUMAN ACTIVITY RECOGNITION**” is the bonafied work of **ZOONA ZAREEN (19UD1A0551), M. SOWMYA (19UD1A0520), E.MAMATHA (19UD1A0507)** of IV Year, CSE in the year 2023 in partial fulfillment of the requirements to award the Degree of Bachelor of Technology in **Computer Science & Engineering** branch of Trinity College of Engineering and Technology.


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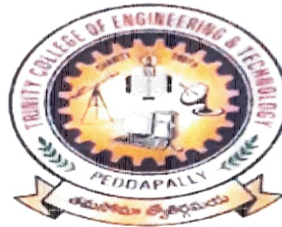
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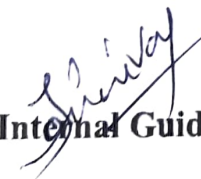
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Certified that this project report entitled, “DETECTION OF CYBERBULLYNG ON SOCIAL MEDIA USING MACHINE LEARNING” is the bonafied work of **KONDAPALKALAMANISHA(20UD1AO505),SOFIYAPARWEZ (19UD1A0550),SIRANGI PRATHYUSHA (19UD1AO534)** of IV Year, CSE in the year 2023 in partial fulfillment of the requirements to award the Degree of Bachelor of Technology in **Computer Science & Engineering** branch of Trinity College of Engineering and Technology.


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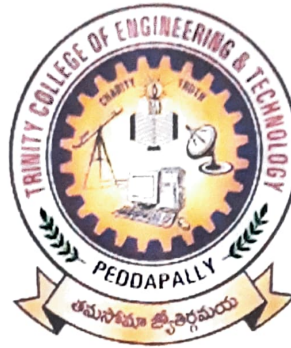
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Certified that this project report entitled, “TEXT CLASSIFICATION ON TWITTER DATA” is the bonafied work of **ZAINAB KHATOON (19UD1A0542), AKHILA (19UD1A0522), LAVANYA(20UD5A0503)** of IV Year, CSE in the year 2023 in partial fulfillment of the requirements to award the Degree of Bachelor of Technology in **Computer Science & Engineering** branch of Trinity College of Engineering and Technology.


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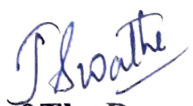
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Certified that this project report entitled, "YOUTUBE COMMENTS SPAM DETECTION" is the bonafied work of **KOMMU VAISHNAVI(19UD1A0516)**, **MEDAM SANDHYA(19UD1A0521)**, **SOMIDI VARSHASRI (19UD1A0536)** of IV Year, CSE in the year 2023 in partial fulfillment of the requirements to award the Degree of Bachelor of Technology in **Computer Science & Engineering** branch of Trinity College of Engineering and Technology.


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Certified that this project report entitled, "A DEEP LEARNING APPROACH FOR ROBUST DETECTION OF BOTS IN TWITTER USING TRANSFORMERS" is the Bonafide work of ANUMULA RAKESH(20UD5A0501) KHAJA AFWAN(19UD1A0545), PENUKULA NANDU(19UD1A0527) Of IV Year, CSE in the year 2023 in partial fulfilment of the requirements to award the Degree of Bachelor of Technology in **Computer Science & Engineering** Branch of Trinity College of Engineering and Technology


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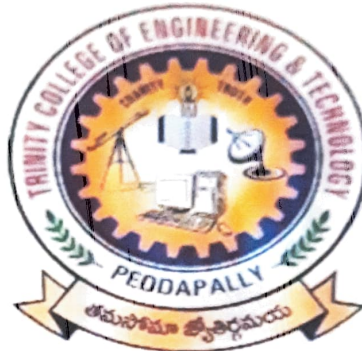
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Certified that this project report entitled, **“BUILDING SEARCH ENGINE USING MACHINE LEARNING TECHNIQUE”** is the bonafied work of **SALMA SANUBAR (19UD1A0549), PARSHAM ANUSHA (19UD1A0526), GURRALA KOMALATHA (19UD1A0509)** of IV Year, CSE in the year 2023 in partial fulfillment of the requirements to award the Degree of Bachelor of Technology in **Computer Science & Engineering** branch of Trinity College of Engineering and Technology.

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M. Zameer
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Certified that this project report entitled, "Mitigating COVID-19 Transmission in Schools With Digital Contact Tracing " is the bonafied work **ALLADI GAYATHRI(19UD1A0504),AFREEN,SULTHANA(19UD1A0502),KASIPETAJ YOTHIRMAYI (19UD1A0514)**of IV Year, CSE in the year 2019 in partial fulfillment of the requirements to award the Degree of Bachelor of Technology in **Computer Science & Engineering** branch of Trinity College of Engineering and Technology.


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Ph: 08728-645058, e-mail:trinitycetpdpl@gmail.com

CERTIFICATE



This is to certify that the mini project report entitled,
"Density based smart traffic control system using canny edge detection algorithm for congregating traffic information using AI"

Is being submitted by

A.PRATHYUSHA (19UD1A0401)

A.SRINIVAS (19UD1A0403)

B.AKHILA (19UD1A0405)

CH.SHRAVYA (19UD1A0408)

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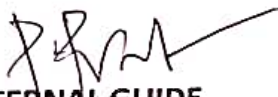
CERTIFICATE

This is to certify that the mini project report entitled "**A DEEP LEARNING TECHNIQUE FOR UNDER WATER IMAGE CLASSIFICATION**" is being submitted

By

A. SRINIVAS	(19UD1A0402)
E. ANURUPA	(19UD1A0412)
U. VYSHNAVI	(19UD1A0419)
V.SHASHI KUMAR	(20UD5A0410)

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Date:

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This is to certify that the Project report entitled **"AN EFFICIENT STEGANOGRAPHY USING AD PVD"** that is being submitted by

S. MANISHA	(19UD1A0417)
M. RAKESH	(19UD1A0415)
M. RAKESH	(20UD5A0404)

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CHILUKA. SAGAR
Asst prof

HEAD OF THE DEPARTMENT
Dr. P. PRABHAKAR
Asst prof

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CERTIFICATE

This is to certify that the Project report entitled "**DEEP LEARNING APPLICATIONS IN MEDICAL IMAGE ANALYSIS**" that is being submitted by

B.MANISHARANI (19UD1A0404)

B.ALEKHYA (19UD1A0406)

D.SHYAMALATHA (19UD1A0410)

P.VINEELA (20UD5A0406)

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Mr.P.PRABHAKAR_{M.TECH}
Assistant Professor


HEAD OF THE DEPARTMENT

Mr.P.PRABHAKAR_{M.TECH.}
Assistant Professor


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This is to certify that the mini project report entitled,
**“FAST DETECTION OF MULTIPUL OBJECTS IN TRAFFIC SCENES WITH A
COMMON DETECTION FRAME WORK”**
Is being submitted by

B.SNEHA	(19UD1A0407)
G.RUCHITHA	(20UD5A0402)
S.MOUNIKA	(20UD5A0408)
V.AKHILA	(20UD5A0415)

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This is to certify that the mini project report entitled **"HELMET AND NUMBER
PLATE DETECTION AND RECOGNITION"**

is being submitted By

P.SHWETHA	(19UD1A0416)
S.AKSHAYA	(19UD1A0418)
ZEENATH KOUSAR	(19UD1A0422)
B.SRAVYA	(19UD1A0423)

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This is to certify that the Project report entitled "**MASTER FACE ATTACKS ON FACE RECOGNITION SYSTEM**" that is being submitted by

D.SNEHA	(19UD1A0411)
K.SUPRAJA	(19UD1A0414)
V.HARISH	(19UD1A0421)
N.SUJITH KUMAR	(20UD5A0414)

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INTERNAL GUIDE
Mr. B. RAJENDAR M.TECH
Assistant Professor

HEAD OF THE DEPARTMENT
Mr. P. PRABHAKAR M.TECH
Assistant Professor

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Certified that this project report emitted, "**AUTOMATIC NUMBER PLATE DETECTION USING MACHINE LEARNING ALGORITHMS**" is the bonafide work of A HIMAJA (20UD5A0401), P KEERTHANA (20UD5A0405), CH RUCHITHA (20UD5A0411) of IV Year, ECE in the year 2023 in partial fulfilment of the requirements to award the Degree of Bachelor of Technology in **Electronics & Communication Engineering** branch of Trinity college of Engineering and Technology.


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Certified that this project report entitled, **“FILTERING INSTAGRAM HASHTAGS THROUGH CROWD TAGGING AND THE HITS ALGORITHMS”** is the bonafide work of **R. VAMSHI KRISHNA (20UD5A0407); S. JYOTHSNA (20UD5A0409); J. NAGAMANI (20UD5A0412); M. SHIVA KUMAR (20UD5A0413)** of IV Year ECE in the year 2023 in partial fulfillment of the requirements to award the degree of bachelor of technology in **Electronics & Communication Engineering** branch of Trinity College of Engineering and Technology.


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Certified that this project report entitled **"MODELING AND CONTROL OF MULTIPORT CONVERTER BASED EV CHARGING STATION WITH PV AND BATTERY"** that is being submitted by

K. VAISHNAVI	(20UD5A0204)
B. SRIJA	(19UD1A0204)
CH. PRAVALIKA	(20UD5A0218)
N. HIMA BINDU	(18UD1A0215)
NEHA JABEEN	(17UD5A0218)

In partial fulfillment of the requirements to award the Degree of **Bachelor of Technology in Electrical and Electronics Engineering** is a record of bonafied work carried out by them under our guidance and supervision.


INTERNAL GUIDE
DR.K. NATARAJAN (ME,MBA,PHD)
Associate professor


HEAD OF THE DEPARTMENT
DR.K. NATARAJAN (ME,MBA,PHD)
Associate professor


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 Ph: 98728-645158, FAX: 98728-229999, e-Mail: trin-tycetpdal@gmail.com

Date:

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This is to certify that the Project report entitled "**IMPLEMENTATION OF SOLAR PV-BATTERY & DIESEL GENERATOR BASED ELECTRICAL VEHICLE CHARGING STATION**" that is being submitted by In partial fulfillment for the award of **BACHELOR OF TECHNOLOGY** in **ELECTRICAL AND ELECTRONICS ENGINEERING** is a record of bonafied of work carried out by them under our guidance and supervision.

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B.ABHINAV	(20UD5A0201)
T.ARUN TEJA	(20UD5A0209)
CH.VISHAL	(19UD1A0205)
D.SAGAR	(20UD5A0202)
S.SAI SHARANYA	(20UD5A0207)

A. Krishnaiah
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Mr. A.KRISNAIAH M.TECH

K. Natarajan
 HEAD OF THE DEPARTMENT

Dr. K.NATARAJAN M.E., M.B.A., P.H.D.

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This is to certify that the Project report entitled "**Stability Improvement of DC Power Systems in an All-Electric Ship Using Hybrid SMES/ BATTERY**" that is being submitted by


A. ARAVIND	(20UD5A0212)
S. SAIPRANEETH	(20UD5A0208)
B. SRINU	(20UD5A0216)
A. VISHNUVARDHAN	(20UD5A0210)
A. SAIKIRAN	(20UD5A0213)

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HEAD OF THE DEPARTMENT
Dr. K. NATARAJAN ME, M.B.A. Ph.D.


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This is to certify that the Project report entitled **“ GRID-INTERFACED SOLAR PV POWERED ELECTRIC VEHICLE BATTERY SYSTEM WITH NOVEL ADAPTIVE DIGITAL CONTROL ALGORITHM ”** that is being submitted by

P.RAMYA	(19UD1A0212)
N.SOWMYA SRI	(19UD1A0220)
D.SHIRISHA	(20UD5A0219)
E.SAI CHARAN	(20UD5A0221)
B.SHIVA KRISHNA	(20UD5A0215)

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K. L. Srinivas

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This is to certify that the Project report entitled "**ADVANCED VOLTAGE SUPPORT AND ACTIVE POWER FLOW CONTROL IN GRID-CONNECTED CONVERTERS UNDER UNBALANCED CONDITIONS**" that is being submitted by

SAMREEN	(19UD1A0221)
R.ANJALI	(19UD1A0213)
A.SHARATH CHANDRA	(19UD1A0217)
G.VASHISTA	(19UD1A0218)
E.AISHWARYA	(19UD1A0207)

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This is to certify that the Project report entitled "**AN INTERLINKING CONVERTER FOR RENEWABLE ENERGY INTEGRATING INTO HYBRID GRIDS**" that is being submitted by

A.JAGADISH	(20UD5A0211)
J.ADITHYA	(19UD1A0208)
N.SREE SAI DIVYA	(20UD5A0205)
A.MOUNIKA	(19UD1A0201)

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Mrs. CH. SUPRIYA M.TECH

HEAD OF THE DEPARTMENT

Dr. K. NATARAJAN ME, MBA, PH.D

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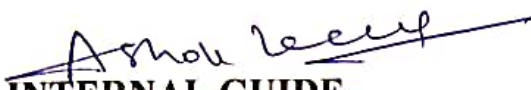
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This is to certify that the Project report entitled "**MODELLING AND CONTROL DESIGN FOR VARIABLE SPEED WIND TURBINE ENERGY SYSTEM**" that is being submitted by

B.AJAY KUMAR	(20UD5A0217)
K.SAI MAHESH	(19UD1A0210)
J.ASHOK	(20UD5A0203)
B.SANDEEP	(19UD1A0202)
MD.ZEESHAN	(19UD1A0211)

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Mr. G. ASHOK KUMAR M. Tech
 Assistant Professor


HEAD OF THE DEPARTMENT
Dr. K. NATARAJAN M.E., M.B.A., Ph.D.
 Assistant Professor


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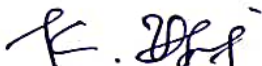
CERTIFICATE

This is to certify that the Project report entitled "**A NEW BATTERY/ULTRA-CAPACITOR HYBRID ENERGY STORAGE SYSTEM FOR ELECTRIC, HYBRID AND PLUG-IN HYBRID ELECTRIC VEHICLES**" that is being submitted by

K. SHRUTHI	(19UD1A0209)
T. PREETHI	(19UD1A0216)
M. SUDEEPTHI	(19UD1A0219)
SHAIK SAMEERUDDIN	(19UD1A0215)
R. SAI KRISHNA	(20UD5A0206)

In partial fulfillment for the award of **BACHELOR OF TECHNOLOGY in ELECTRICAL AND ELECTRONICS ENGINEERING** is a record of bonafied work carried out by them 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. K. VAMSHI KRISHNA M.E.
 Assistant Professor


HEAD OF THE DEPARTMENT
 Dr. K. NATARAJAN M.E., M.B.A., Ph.D.
 Assistant Professor


EXTERNAL EXAMINER


PRINCIPAL

2020-2023.



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PEDDAPALLY – 505172

(Approved by AICTE New Delhi, Affiliated to JNTU, Hyderabad)
Ph: 08728-645058, FAX: 08728-223959, e-Mail: trinitycetpdpl@gmail.com

Date: _____

CERTIFICATE

This is to certify that the Project report entitled **“ANN BASED MPPT APPLIED TO SOLAR POWERED WATER PUMPING SYSTEM USING BLD MOTOR”** that is being submitted by

E.SARAIAN	(20UD5A0223)
E.RAGHU	(20UD5A0222)
T.SRIHA	(20UD5A0258)

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INTERNAL GUIDE

Mrs. SUPRIYA M.TECH

HEAD OF THE DEPARTMENT

Dr. K. NATARAJAN ME,MBA,PHD

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Date: _____

CERTIFICATE

This is to certify that the Project report entitled “ REPLACING GRID INTERFACE TRANSFORMER IN WIND ENERGY CONVERSION SYSTEM WITH SOLID STATE TRANSFORMER ” that is being submitted by

K.PRATHYUSHA	(20UD5A0231)
R.DIVYA	(20UD5A0253)
J.AKASH	(20UD5A0230)
G.ASHISH	(20UD5A0224)
S.ADARSH	(20UD5A0257)

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INTERNAL GUIDE

Mr. M.SHIVA KUMAR M.Tech.


HEAD OF THE DEPARTMENT

Dr. K. NATARAJAN M.E., M.B.A., Ph.D.


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Ref. No.

Date: _____


CERTIFICATE


This is to certify that the Project report entitled "**GRID-CONNECTED WIND-PHOTOVOLTAIC COGENERATION USING BACK-TO-BACK VOLTAGE SOURCE CONVERTERS**" that is being submitted by

M. MANASWINI	(20UD5A0239)
M.AJAY	(20UD5A0242)
T. THARUN TEJA	(20UD5A0262)
V.AKHILA	(20UD5A0266)
P.MADHU KUMAR	(20UD5A0246)

In partial fulfillment for the award of **BACHELOR OF TECHNOLOGY in ELECTRICAL AND ELECTRONICS ENGINEERING** is a record of bonafied work carried out by them under our guidance and supervision.

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INTERNAL GUIDE
Mr.K.VAMSHI KRISHNA M.E.
Assistant Professor


HEAD OF THE DEPARTMENT
Dr.K.NATARAJAN M.E., M.B.A., Ph.D.
Assistant Professor


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PEDDAPALLI, KARIMNAGAR-505172

Date:


CERTIFICATE



Certified that this project report entitled "**SOLAR PV FED INDUCTION MOTOR DRIVEN WATER PUMPING SYSTEM USING HIGH GAIN CONVERTER**" that is being submitted by

SEEMA TARANNUM	(20UD5A0255)
V.SAIKRISHNA	(20UD5A0265)
T.AVINASH	(20UD5A0260)
S.SANDEEP	(20UD5A0254)
MD.MUDASSIR	(20UD5A0241)

In partial fulfillment of the requirements to award the Degree of Bachelor of Technology in Electrical and Electronics Engineering is a record of bonafied work carried out by them under our guidance and supervision.


INTERNAL GUIDE
DR.K.NATARAJAN(ME,MBA,PHD)
Associate professor


EXTERNAL EXAMINER


HEAD OF THE DEPARTMENT
DR.K.NATARAJAN(ME,MBA,PHD)
Associate professor


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TRINITY

COLLEGE OF ENGINEERING AND TECHNOLOGY

PEDDAPALLY – 505172

(Approved by AICTE New Delhi, Affiliated to JNTU, Hyderabad)

Ref. No.

Date:

CERTIFICATE

This is to certify that the Project report entitled **“INTELLIGENT CONTROL AND POWER MANAGEMENT OF WIND-SOLAR INTEGRATION OF RENEWABLE ENERGY SOURCES USING MICROGRID”** that is being submitted by

K.KARTHIKEYA (20UD5A0235)

K.SATHISH (20UD5A0237)

K.ARUN (20UD5A0234)

In partial fulfillment for the award of *BACHELOR OF TECHNOLOGY* in *ELECTRICAL AND ELECTRONICS ENGINEERING* is a record of bonafied work carried out by them 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. S. THIRUPATHI M.Tech.
Assistant Professor

HEAD OF THE DEPARTMENT
Dr. K. NATARAJAN M.E., M.B.A., Ph.D.
Assistant Professor

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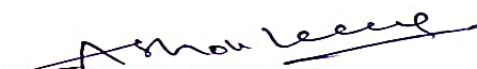
CERTIFICATE

This is to certify that the Project report entitled **“IMPROVEMENT OF POWER QUALITY OF A GRID CONNECTED WIND ENERGY SYSTEM USING D-STATCOM”** that is being submitted by

J.UDAY KIRAN	(20UD5A0229)
T.SRINIVAS	(20UD5A0263)
K.SAI VARDHAN	(20UD5A0233)
K.SAGAR	(20UD5A0232)

In partial fulfillment for the award of **BACHELOR OF TECHNOLOGY** in **ELECTRICAL AND ELECTRONICS ENGINEERING** is a record of bonafied work carried out by them under our guidance and supervision.

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INTERNAL GUIDE
Mr. G. ASHOK KUMAR M.TECH.
Assistant Professor


HEAD OF THE DEPARTMENT
Dr. K. NATARAJAN M.E., M.B.A., Ph.D.
Assistant Professor


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Ref. No. _____

Date: _____

CERTIFICATE

This is to certify that the Project report entitled **“SINGLE-PHASE BOOST DC-LINK INTEGRATED CASCADED MULTILEVEL INVERTER FOR PV APPLICATIONS”** that is being submitted by

V.SWETHA	(20UD5A0264)
T.SHIRISHA	(20UD5A0259)
MD.ASHISH	(20UD5A0240)
G.RAKESH	(20UD5A0227)
N.BHAVANI	(20UD5A0244)

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The results embodied in this report have not been submitted to any other University or Institute for the award of any degree or diploma.

K.L. Srinivas
INTERNAL GUIDE
 Mr. K.SRINIVAS MTECH.
 Assistant Professor

K. Natarajan
HEAD OF THE DEPARTMENT
 Dr. K. NATARAJAN M.E., M.B.A., Ph.D.
 Assistant Professor

[Signature]
EXTERNAL EXAMINER

[Signature]
PRINCIPAL



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Ph: 08728-645058, FAX: 08728-223959, e-Mail: trinitycetpdpl@gmail.com

Date: _____

CERTIFICATE

This is to certify that the Project report entitled "**PROTECTION STRATEGY FOR WIRELESS CHARGING ELECTRICAL VEHICLES**" that is being submitted by

K.MANASA	(20UD5A0236)
P.LAYA	(20UD5A0248)
P.LAXMAN	(20UD5A0251)
P.KARTHIK GOUD	(20UD5A0250)
P.ALEKHYA	(20UD5A0247)

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INTERNAL EXAMINER

Mr. B.SANTHOSH M.TECH


HEAD OF THE DEPARTMENT

Dr. K. NATARAJAN ME, MBA, PILD


EXTERNAL EXAMINAR


PRINCIPAL