

REDDY MEMORIAL COLLEGE OF ENGINEERING AND TECHNOLOGY

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Petlurivari Palem (V), Palnadu District - 522 601, A.P., India




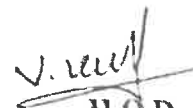
CERTIFICATE

This is to certify that the project report entitled "AUTOMATED HAND GESTURE RECOGNIZATION USING DEEP CONVOLUTIONAL NEURAL NETWORK MODEL" being submitted by

|                    |            |
|--------------------|------------|
| R.GOPI             | 19HM1A0564 |
| A.V HEMANTH        | 19HM1A0503 |
| CH.SAI KUMAR       | 19HM1A0514 |
| K.RADHIKA          | 19HM1A0529 |
| G.SUSHMA CHOWDHARY | 19HM1A0521 |


in partial fulfillment for the award of the Degree of Bachelor of Technology in Computer Science and Engineering to the Jawaharlal Nehru Technological University is a record of bonafied work carried out by him under my 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.

  
Guided by:  
Mr.N.ANJINEYULU Assoc.Proff

  
H.O.D

Mr. V.V.B Chari M.Tech


HEAD OF THE DEPARTMENT  
COMPUTER SCIENCE & ENGINEERING  
A.M. REDDY MEMORIAL COLLEGE OF ENGINEERING & TECHNOLOGY  
PETLURIVARI PALEM  
Palnadu District - 522 601, A.P., India

  
Principal

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ENGINEERING & TECHNOLOGY  
PETLURIVARI PALEM

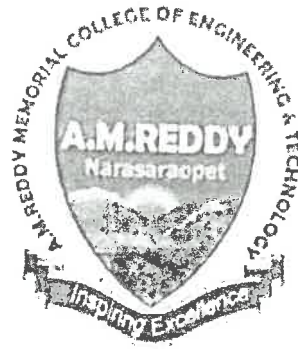


ii

  
External Examiner  
Principal

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PETLURIVARI PALEM  
Narasaraopet (Mdl), Guntur (Dt)

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Petturivaripalem(V), Palnadu District – 522 601, A.P, India



## CERTIFICATE

This is to certify that the project report entitled “5G SMART DIABETES :TOWARD PERSONALIZED DIABETES DIAGNOSIS WITH HEALTHCARE BIG DATA CLOUDS ” being submitted by

|                   |            |
|-------------------|------------|
| I. MARIYA RAJU    | 19HM1A0526 |
| M MEGHANA         | 19HM1A0549 |
| G.LOKESH          | 19HM1A0524 |
| K.NANDHANA JYOTHI | 19HM1A0536 |
| T.GEETHA RAMYA    | 19HM1A0576 |

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Guided by

Mr. K. S. [Signature] Rao [Ph.D] M.Tech

Assoc.Proff

[Signature]  
H.O.D

Mr. V.V.B Chari M.Tech

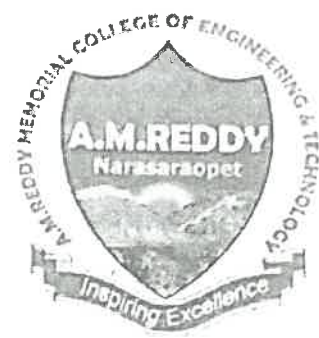
[Signature]  
Principal  
A.M REDDY MEMORIAL COLLEGE OF  
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ii

[Signature]  
Principal  
External Examiner  
A.M REDDY MEMORIAL COLLEGE OF  
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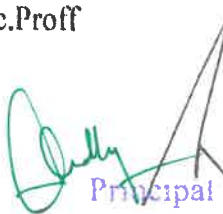
|                   |            |
|-------------------|------------|
| I. MARIYA RAJU    | 19HM1A0526 |
| M MEGHANA         | 19HM1A0549 |
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| K.NANDHANA JYOTHI | 19HM1A0536 |
| T.GEETHA RAMYA    | 19HM1A0576 |

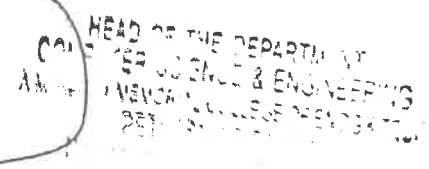
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Guided by  
  
Mr. K. Srinivas Rao [Ph.D] M.Tech  
Assoc.Proff

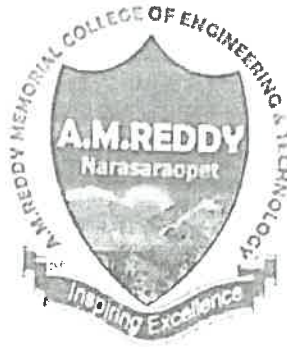
  
H.O.D  
Mr. V.V.B Chari M.Tech

  
Principal

  
Principal

  
External Examiner

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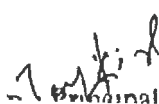
Guided by

Mr.K.Srinivas Rao [Ph.D] M.Tech

Assoc.Proff

  
H.O.D

Mr. V.V.B Chari M.Tech

  
Principal

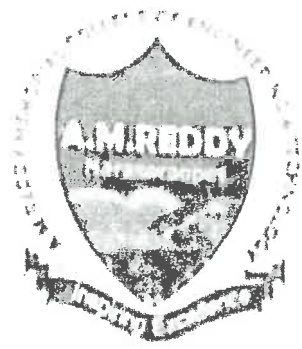
  
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HEAD OF THE DEPARTMENT  
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PETLURIVARI PALEM  
Narasaraopet (V) Palnadu District**

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Petalurivari, Palnada District - 522 601, A.P., India




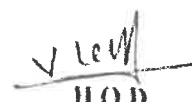
### CERTIFICATE

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|                   |            |
|-------------------|------------|
| E. MARIYARAU      | 19HMTA0526 |
| MMEGHANA          | 19HMTA0549 |
| G. LOKESH         | 19HMTA0524 |
| K.NANDHANA JYOTHI | 19HMTA0536 |
| L. GEETHARAMYA    | 19HMTA0576 |

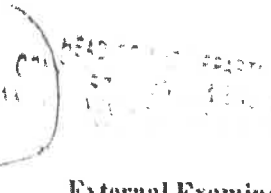
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Guided by  
  
Mr. K. Srinivas Rao (PhD) M.Tech  
Assoc. Prof

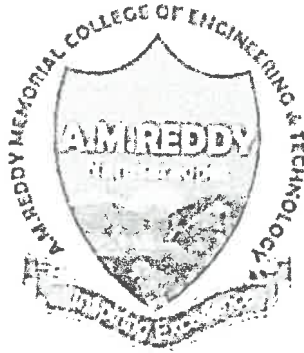
  
H.O.D  
Mr. V.V.B. Charu M.Tech

  
Principal  
M REDDY MEMORIAL COLLEGE

  
Principal

  
External Examiner

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Approved by AICTE, New Delhi, Affiliated to JNTUK, Kakimada  
Vinukonda Road, Petlurivaripalem(V), Palnadu District-522601, AP



## CERTIFICATE

This is to certify that the Project Report titled " **TECHNIQUES FOR SENTIMENT ANALYSIS** " is submitted by

|                         |                   |
|-------------------------|-------------------|
| <b>O. PUSHPA RANI</b>   | <b>19HM1A0554</b> |
| <b>P. PAVITHRA</b>      | <b>19HM1A0561</b> |
| <b>N. VENNELA</b>       | <b>19HM1A0553</b> |
| <b>B. SHARON PUSHPA</b> | <b>19HM1A0513</b> |
| <b>G. SIRISHA</b>       | <b>19HM1A0522</b> |

Students of **B. Tech (CSE)**, in partial fulfillment of the requirements for the award of the degree of **Bachelor of Technology in Computer Science and Engineering** is a record of bona fide work carried out by them under my supervision. The matter embodied in this report has not been submitted to any other University or Institution for the award of any other degree.

Internal Guide  
K. Prasanthi

Principal

Dr. S. Jaya Krishna

Principal

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PETLURIVARI PALEM  
Narasaraopet (Mdi), Guntur(Dt .

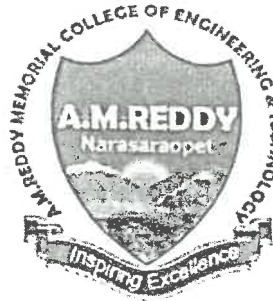
Head of the Department  
Mr. V. N. G. Chari  
External Examiner

Principal

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PETLURIVARI PALEM  
Narasaraopet (Mdi), Guntur, Dt

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Petlurivaripalem(V), Palnadu District – 522 601, A.P, India



**CERTIFICATE**

This is to certify that the project report entitled "A CONVOLUTIONAL NEURAL NETWORK METHOD FOR SELF-DRIVING CARS" being submitted by

|                   |            |
|-------------------|------------|
| M.MEGHANA         | 19HM1A0544 |
| B.GANGADHAR       | 19HM1A0509 |
| M.PRAMOD KUMAR    | 19HM1A0546 |
| P.SUBBARAO GUPTHA | 19HM1A0558 |
| S.RAMADEVI        | 19HM1A0569 |

in partial fulfillment for the award of the Degree of Bachelor of Technology in Computer Science and Engineering to the Jawaharlal Nehru Technological University is a record of bonafied work carried out by him under my 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.

Guide

M.PRASHANTHI Assistant. Professor

Principal

Dr. S.JAYA KRISHNA

Principal

A.M REDDY MEMORIAL COLLEGE OF  
ENGINEERING & TECHNOLOGY  
PETLURIVARI PALEM  
Narasaraopet (Mdl), Guntur(Dt)

H.O.D

Mr. V.B. Chari  
HEAD OF THE DEPARTMENT  
COMPUTER SCIENCE & ENGINEERING  
Internal Examiner  
A.M. REDDY MEMORIAL COLLEGE OF ENGINEERING & TECHNOLOGY  
PETLURIVARI PALEM  
Narasaraopet (Mdl), Guntur (Dt)

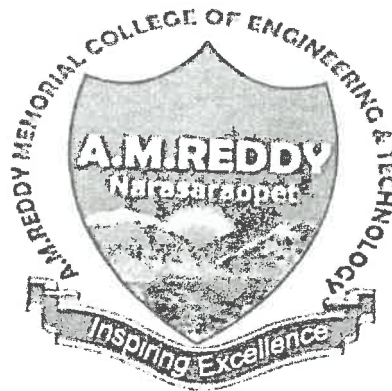
ii

Principal

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PETLURIVARI PALEM  
Narasaraopet (Mdl)

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Petlurivaripalem(V), Palnadu District - 522601, A.P, India



## CERTIFICATE

This is to certify that the project report entitled "BLOCK CHAIN AND MACHINE LEARNING IN HEALTHCARE AND MANAGEMENT" being submitted by

|               |            |
|---------------|------------|
| M.PREMAKUMARI | 19HM1A0541 |
| P.HEMALATHA   | 19HM1A0562 |
| CH.ANUSHA     | 19HM1A0518 |
| B.HEMALATHA   | 19HM1A0512 |
| M.PRASANTH    | 19HM1A0545 |


In partial fulfillment for the award of the Degree of Bachelor of Technology in Computer Science and Engineering to the Jawaharlal Nehru Technological University is a record of bonafide work carried out by him under my guidance and supervision.

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GUIDANCE

Mr. V.V.B.CHARI M.Tech  
Asst.Proffesor

  
EXTERNAL EXAMINEE

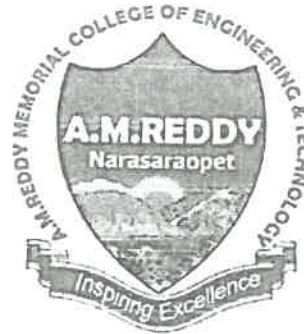
  
HEAD OF DEPARTMENT  
COMPUTER SCIENCE & ENGINEERING  
Mr. V.V.B.CHARI M.Tech  
Asst. Professor  
A.M. REDDY MEMORIAL COLLEGE OF ENGINEERING & TECH  
PETLURIVARI PALEM  
PALNADU DISTRICT (Ddl)

Viva voice held on: \_\_\_\_\_



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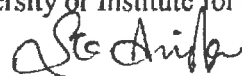
## CERTIFICATE

This is to certify that the project report entitled “**DROWSINESS DETECTION OF A DRIVER USING CONVENTIONAL COMPUTER VISION APPLICATION**” being submitted by

|             |            |
|-------------|------------|
| P.SRAVANTHI | 19HM1A0559 |
| M.PRASANTH  | 19HM1A0547 |
| SD.ZAMEER   | 19HM1A0572 |
| C.ARAVIND   | 19HM1A0515 |
| R.CHAITANYA | 19HM1A0563 |

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GUIDANCE


Mrs.SHAIK ARIFA (M.Tech)  
Asst.Prof

  
EXTERNAL EXAMINEE

Viva voice held on \_\_\_\_\_

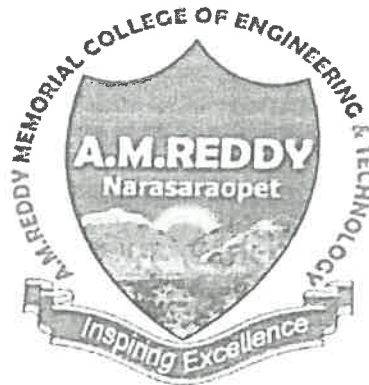
  
HEAD OF DEPARTEMENT  
Mr.V.V.B.CHARI(M.Tech)  
Asst.Prof

HEAD OF THE DEPARTMENT  
COMPUTER SCIENCE & ENGINEERING  
A.M. REDDY MEMORIAL COLLEGE OF ENGG & TECH.  
PETLURIVARI PALEM  
Narasaraopet (Md), Guntur Dist.

  
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Narasaraopet (Md) Guntur Dist.

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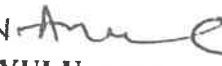
This is to certify that the project report entitled "E-COMMERCE SALES FORECAST BASED ON ENSEMBLE LEARNING " being submitted

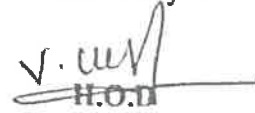
By

|                    |            |
|--------------------|------------|
| P.CHIEENA KESHIAVA | 19HM1A0557 |
| C.BINDU            | 19HM1A0516 |
| A.SANJAY           | 19HM1A0504 |
| B.KISHORE          | 19HM1A0508 |
| B.SOMANATH         | 19HM1A0510 |

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GUIDANCE   
Mr. N.ANJINEYULU M.Tech[PH.D]  
Asst. Professor

  
H.O.D.  
Mr. V. B. CHARI M.Tech, B  
Asst. Professor  
PETLURIVARI PALEM

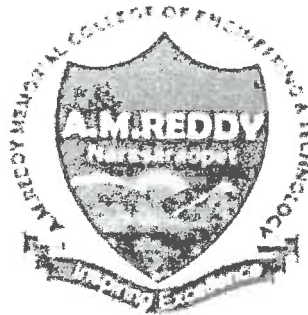
EXTERNAL EXAMINE 

Viva voice held on \_\_\_\_\_

  
Principal

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PETLURIVARI PALEM  
Narasaraopet (Md), Palnadu(Dr

A.M. REDDY MEMORIAL COLLEGE OF ENGINEERING & TECHNOLOGY  
PETLURIVARI PALEM, Narasaraopet (Mdl), Guntur District - 522 001, A.P., India



## CERTIFICATE


This is to certify that the project report entitled "CYBERBULLYING DETECTION AND ENSEMBLE BASED MACHINE LEARNING APPROACHES" being submitted By

|            |             |
|------------|-------------|
| M.REVATHI  | 19HMI A0543 |
| G.ASWINI   | 19HMI A0525 |
| S.SRUTHI   | 19HMI A0566 |
| J.NAGABABU | 19HMI A0524 |
| K.SURENDRA | 19HMI A0539 |


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GUIDED BY


Mr. Ch. Kishore M.Tech  
Asst. prof

  
Principal

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ENGINEERING & TECHNOLOGY  
PETLURIVARI PALEM  
Narasaraopet (Mdl), Guntur Dt

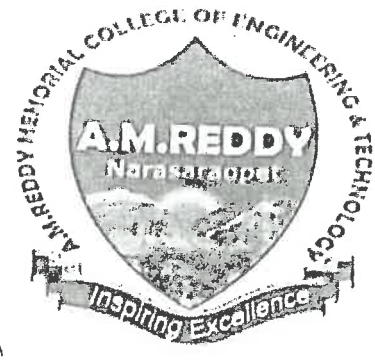
  
HEAD OF DEPARTMENT  
COMPUTER SCIENCE AND ENGINEERING  
M. V. S. CHARAN M. Tech  
Asst. Prof  
Narasaraopet (Mdl), Guntur Dt

EXTERNAL EXAMINER

  
Principal  
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PETLURIVARI PALEM  
Narasaraopet (Mdl), Guntur Dt

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Vinukonda Road, Petlurivaripalem(V), Palnadu District - 522 601, A.P, India



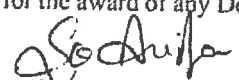
**CERTIFICATE**

This is to certify that the project report entitles "EXERCISE RECOMMENDATION METHOD BASED ON MACHINE LEARNING" being submitted by

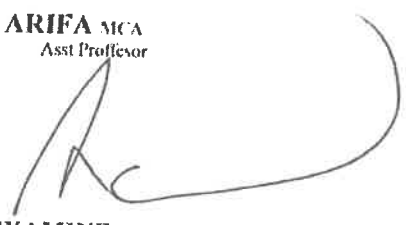
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|--------------------------|-------------|
| EDIGA NARENDRA           | 1911M1A0520 |
| MUKTHAPURAM SANGEETHA    | 1911M1A0550 |
| NANDIPATI SIVAJYOTHI     | 1911M1A0551 |
| PALAM RAJASEKHAR REDDY   | 1911M1A0556 |
| TALATALA GEETHASRAVANTHI | 1911M1A0574 |

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GUIDANCE

MRS.SHAIK ARIFA MCA  
Asst Professor

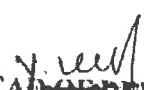


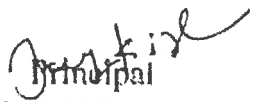
EXTERNAL EXAMINEE

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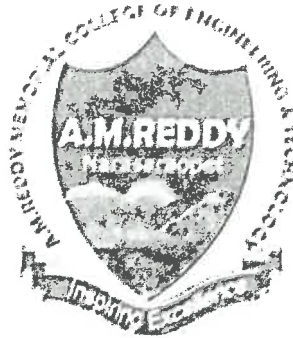
  
Principal

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PETLURIVARI PALEM  
Narasaraopet (Mdl),Guntur,Dr**

  
HEAD OF DEPARTMENT  
COMPUTER SCIENCE & ENGINEERING  
AMVEDUWB CHARTERED COLLEGE  
PETLURIVARI, Narasaraopet (Mdl), Guntur, Dr

  
Principal  
A.M REDDY MEMORIAL COLLEGE OF  
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PETLURIVARI PALEM, Narasaraopet (Mdl), Guntur, Dr

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 Approved by AICTE, New Delhi, Affiliated to JNTUK, Yakinada, Vinukonda Road,  
 Petalurivalem(V), Palnada District - 522 601, A.P, India



## CERTIFICATE

This is to certify that the project report entitled "ANALYZING SOFTWARE COMPLEXITIES BY APPLYING DATA STRUCTURE METRICES ON DIFFERENT PROGRAMMING LANGUAGES" being submitted by

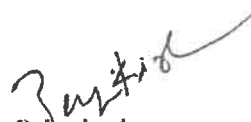
|                   |            |
|-------------------|------------|
| B. DIVYASREE      | 19HM1A0511 |
| M.NAMRATHA        | 19HM1A0548 |
| P. DINESH REDDY   | 19HM1A0555 |
| K. SHIVA KUMAR    | 19HM1A0535 |
| K. JEEVAN KISHORE | 19HM1A0538 |

in partial fulfillment for the award of the Degree of Bachelor of Technology in Computer Science and Engineering to the Jawaharlal Nehru Technological University is a record of bonafide work carried out by him under my 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.


Guided By   
 Mr. M. RAVINDRA BABU M. Tech  
 Asst. Professor

  
 H.O.D  
 V.V.B. CHARI M. Tech  
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DEPARTMENT OF  
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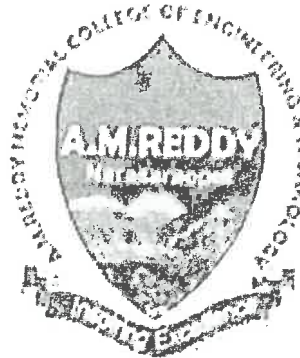
  
 Principal

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**DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING**



**CERTIFICATE**

This is certify that the project Report titled "PREDICTING HEART DISEASE AT EARLY STAGES USING MACHIINE LEARNING:ASURVEY" is submitted by is bonafide work of bearing Regd. No.'s

|                  |            |
|------------------|------------|
| B.NAVYA SREE     | 19HM1A0507 |
| A.SIVA PRASAD    | 19HM1A0502 |
| B.SURYA NARAYANA | 19HM1A0506 |
| K.BHARATHI       | 19HM1A0530 |
| L.NARESH         | 19HM1A0540 |


Students of B. Tech(CSE), submitted in partial fulfillment of the requirements for the award of the degree of Bachelor Of Technology in Computer Science And Engineering In A.M. Reddy Memorial College Of Engineering And Technology, Affiliated to Jawaharlal Nehru Technological University, Kakinada carried out by his under our guidance and Supervision from 2019-2023.

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

  
**PROJECT GUIDE**

  
**PRINCIPAL**

**A.M REDDY MEMORIAL COLLEGE OF  
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PETLURIVARI PALEM  
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**HEAD OF THE DEPARTMENT  
COMPUTER SCIENCE & ENGINEERING  
A.M. REDDY MEMORIAL COLLEGE OF ENGINEERING  
& TECHNOLOGY  
PETLURIVARI PALEM  
Narasaraopet (M-II), Guntur Dt.**

**EXTERNAL EXAMINE**

  
**Principal**

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Narasaraopet (M-II), Guntur Dt.**