# IMAGE PROCESSING AND MACHINE LEARNING FOR

**HUMAN STRESS DETECTION**

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

**of**

**BACHELOR OF TECHNOLOGY**

**in**

## COMPUTER SCIENCE AND ENGINEERING

**of**

## JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY ANANTAPUR, ANANTAPURAM

**by**

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# Under the Esteemed Guidance of

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**2019-2023**

# BHEEMA INSTITUTE OF TECHNOLOGY AND SCIENCE

**ALUR ROAD, ADONI, KURNOOL, A.P.**

**(Affiliated to Jawaharlal Nehru Technological University Anantapur, Anantapur)**



## DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING CERTIFICATE

This is to certify that the project entitled**“IMAGE PROCESSING AND MACHINE LEARNING FOR HUMAN STRESS DETECTION”** being submitted by **H P JUNAID(192K1A0517), KALLUPOTHULA MALLESWARI(192K1A0523),K INDUMATHI(192K1A0522), TALARI**

**MALLIKARUNJA(192K1A0552)** in partial fulfillment of the requirement for the Degree of **Bachelor of Technology** in **Computer Science and Engineering** of **Jawaharlal Nehru Technological University, Anantapur** during the year **2022-2023.**

|  |  |
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| **Mr. G SREERAMULU**  **M.Tech**  **Associate Professor**  Project Guide  Place: Date: | **Mr. V. MALLESI**  **M.Tech**  **Associate Professor**  Head Of the Department |

Certified that the candidate was examined by me in the viva-voce examination held at Bheema Institute of Technology & Science, Alur Road, Adoni on

**INTERNAL EXAMINER EXTERNAL EXAMINER**

# GUIDE DECLARATION

This is to certify that the project entitled " **IMAGE PROCESSING AND MACHINE LEARNING**

**FOR HUMAN STRESS DETECTION**" done by **H P JUNAID, KALLUPOTHULA MALLESWARI, K INDUMATHI ,TALARI MALLIKARJUNA** bearing roll number

**192K1A0517,192K1A0523,192K1A0522,192K1A0552** has been conducted under my direct supervision and guidance.

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This study is in partial fulfilment for the award of **BACHELOR OF TECHNOLOGY** from

**JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY ANANTAPUR,** Andhra Pradesh. Further it is

certified that project has not been previously submitted to any other university for the requirement of

**BACHELOR OF TECHNOLOGY**

**Date: Mr. G Sreeramulu**

**Place:** ADONI **Associate Professor**

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**STUDENT DECLARATION**

**H P JUNAID, KALLUPOTHULA MALLESWARI, K INDUMATHI, TALARI**

**MALLIKARJUNA** student of **Bheema Institute of Technology and Science, Adoni**, hereby declare that the dissertation entitled **“IMAGE PROCESSING AND MACHINE LEARNING FOR HUMAN STRESS DETECTION”** embodies the report of my project work carried out independently by me during final year of **Bachelor of Technology in Computer Science & Engineering** under the supervision and guidance of **Mr. G SREERAMULU**, **Associate Professor**, **Department of Computer Science & Engineering**, **Bheema Institute of Technology and Science, Adoni, A.P,** and this work has been submitted for the partial fulfilment of the requirements for the award of degree of **Bachelor of Technology**.

We have not submitted the matter embodies to any other University or Institutions for the award of any other degree.

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# ACKNOWLEDGEMENT

We take this opportunity to thank all those magnanimous persons who rendered their full support to our work the pleasure, the achievement, the glory, the satisfaction, the reward, the appreciation and the construction of this regular schedule spared their valuable time for us. This acknowledgement is not just a position of words but also an account of indictment. They have been a guiding and source of inspiration towards the completion of this project.

We express our gratitude to **Mr. G S Surendra Babu,** principal, Bheema Institute of Technology and Science Adoni, for giving us an opportunity to do this project work.

We take this opportunity to bestow our sincere gratitude and of special thanks to Assoc. Prof

**V. MALLESI** Project Co-Ordinator & Head of the Department of Computer Science and Engineering for their guidance and support towards the completion of this project.

We are also very much thankful to our guide **Mr. G SREERAMULU** Assoc. Prof the Dept. Of Computer Science and Engineering for his continuous efforts, unfailing interest, constant support and providing me the right infrastructure helped me in completing this project work.

We would like to thank all the faculty members of CSE department and our friends for their valuable suggestions and support which directly or indirectly helped us in molding this project in to a comprehensive one. We wish to express our gratitude to our parents, whose love and encouragement have a great support throughout our education.

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**ABSTRACT**

The main motive of our project is to detect stress in the IT professionals using vivid Machine learning and Image processing techniques. Our system is an upgraded version of the old stress detection systems which excluded the live detection and the personal counseling but this system comprises of live detection and periodic analysis of employees and detecting physical as well as mental stress levels in his/her by providing them with proper remedies for managing stress by providing survey form periodically. Our system mainly focuses on managing stress and making the working environment healthy and spontaneous for the employees and to get the best out of them during working hours.

