A Mini Project Report

on

FACIAL EMOTION RECOGNITION

By

D.Preethika (16WH1A1212)

K.Ramya (16WH1A1221)

Department of Information Technology

BVRIT HYDERABAD
College of Engineering for Women
(Approved by AICTE, New Delhi, NBA Accredited, and Affiliated to JNTUH, Hyderabad)
Bachupally, Hyderabad – 500090

October, 2019

Department of Information technology

BVRIT HYDERABAD
College of Engineering for Women
(Approved by AICTE, New Delhi, NBA Accredited,
A
nd Affiliated to JNTUH, Hyderabad)
Bachupally, Hyderabad – 500090

CERTIFICATE

This is to certify that the mini project entitled "**Facial Emotion Recognition**" done by **Ms. D. Preethika (16WH1A1212), Ms. K. Ramya (16WH1A1221)** of **Department of Information Technology** , is a record of work carried out by them during IV Year I semester.

Dr.K.Adi Narayana Reddy
Professor
Department of IT

Dr. Aruna Rao SL
Professor & HoD
Department of IT

ACKNOWLEDGEMENTS

We would like to express our sincere thanks to **Dr KVN. Sunitha, Principal**, BVRIT HYDERABAD, for providing the working facilities in the college.

Our sincere thanks and gratitude to **Dr. Aruna Rao SL, Professor and HoD**, **Department of InformationTechnology**, BVRIT HYDERABAD for all the timely support and valuable suggestions during the period of our project.

We are extremely thankful and indebted to our internal guide, **Dr.K.Adi Narayana Reddy, Professor, Department of InformationTechnology,** BVRIT HYDERABAD for his constant guidance, encouragement and moral support throughout the project.

Finally, we would also like to thank all the faculty and staff of IT Department who helped us directly or indirectly, parents and friends for their cooperation in completing the project work.

D.Preethika (16WH1A1212)
K.Ramya (16WH1A1221)

CONTENT

1. ABSTARCT

Recognizing human expressions and emotions has drawn the attention of researchers, as the capability of recognizing one's expressions helps in human-computer interaction, to right advertising campaigns, and crowning with an augmented and enhanced human communication ,by amending the emotional intelligence ("EQ") of humans. There are many ways to inspect the recognition of human expressions, ranging from facial expressions, body posture, voice tone etc. In this paper we have focused on facial expression recognition. Facial Emotion Recognition(FER) is a thriving research area in which lots of advancements like automatic translation systems, machine to human interaction are happening in industries. In contrast the paper focus to survey and review various facial extraction features, emotional databases, classifier algorithms and so on. This paper is organized as follows. Section 2 describes background information about expression recognition, emotion recognition system and applications of emotion recognition. Section 3 explains the Feature selection methods and Image optimization. Section 4 compares various Facial emotional database. Section 5 addresses various classifier algorithms for classifying images according to the expression identified.