International Journal of Computer Science and Engineering (IJCSE);
ISSN Print: 2278-9960;ISSN Online:2278-9979;
Vol. 8, Issue 3, Apr - May 2019; 7-14

International Academy of Science, Engineering and Technology
Connecting Researchers; Nurturing Innovations

FACIAL EMOTION DETECTION USING CONVOLUTIONAL NEURAL NETWORKS

Salakapuri Rakesh[1], Avinassh Bharadhwaj[2] & E Sree Harsha[3]

Research Scholar, Department of Information Technology, Chaithanya Bharathi Institute of Technology, Hyderabad, India

ABSTRACT

Human emotions are different mental states of feelings that arise naturally rather than through conscious attempt and are followed by physiological alters in facial muscles which imply different expressions on the face. Some of the emotions are a surprise, sad, fear, anger, happy, etc. Emotion gives us a clue about the state of a person and enables to make conversation with the other person based on their mood. Facial expression plays an important role in non-verbal communication between people. A lot of research work has been accomplished to detect human emotions. But still, it is far behind from the human vision system. In this paper, we are proposing an algorithm which trains the FER 2013 dataset and builds a model. This model is used to predict human emotions using deep CNN (Convolution Neural Networks).

KEYWORDS: *Convolution Neural Network (CNN), Face Detection, Facial Emotions, Facial Expressions*

Article History

Received: *16 Apr 2019* **|** ***Revised:*** *23 Apr 2019* **|** ***Accepted:*** *06 May 2019*
