Music Playlist based on Human Expression

Prof. Dr. Dhananjay Dumbere, Nilima A. Yadav, Ankita S. Ratnaparkhi,
Rinku S. Raut, Monali S. Dange
Department of Computer Science & Engineering
Rajiv Gandhi College of Engineering Research and Technology, Chandrapur, Maharashtra

Abstract: *Facial expression is the visible manifestation of the affective state, cognitive activity, intention, personality and psychopathology of a person and plays a communicative role in interpersonal relations. Automatic recognition of facial expressions can be an important component of natural human-machine interfaces; it may also be used in behavioral science and in clinical practice. An automatic Facial Expression Recognition system needs to perform detection and location of faces in a cluttered scene, facial feature extraction, and facial expression classification. Facial expression recognition system is implemented using Convolution Neural Network (CNN). CNN model of the project is based on Net Architecture. Kaggle facial expression dataset with seven facial expression labels as happy, sad, surprise, fear, anger, disgust, and neutral is used in this project. The system achieved 56.77 % accuracy and 0.57 precision on testing dataset. Keywords: Facial Expression Recognition, Convolutional Neural Network, Deep Learning.*

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