EMOTION BASED MUSIC PLAYER USING DEEP LEARNING AND AI

Abstract

The human face is an important part of an individual's body and it especially plays an important role in knowing an individual's mood. Extracting the required input from the human face can now be done directly using a camera. This input can then be used in many ways. One of the applications of this input can be for extracting the information to deduce the mood of an individual. This data can then be used to get songs that comply with the „mood" derived from the input provided earlier. This eliminates the time-consuming and tedious task of manually Segregating or grouping songs into different lists and helps in generating an appropriate playbased on an individual's emotional features. Various algorithms have been developed and proposed for automating the play song process. Facial Expression Based Music Player aims at scanning and interpreting the data and accordingly creating a play based the parameters provided. The scanning and interpreting includes audio feature extraction and classification to get a list of songs belonging to a similar genre or to get a list of similar sounding songs. Human emotions are meant for mutual understanding and sharing feelings and intentions. The emotions are manifested in verbal and facial expressions. One can also express his emotions through written text. This paper mainly focuses on what are the methodologies available for detecting human emotions for developing emotion based music player, which are the approaches used by available music players to detect emotions, which approach our music player follows to detect human emotions and how it is better to use our system for emotion detection. It also gives brief idea about our systems working, play song and emotion classification. The application is thus developed in such a way that it can manage content accessed by user, analyze the image properties and determine the mood of the user based on mp3 file properties so that they can be added into appropriate play according to the emotion.