A Novel Emotion based Music Recommendation System using CNN

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Abstract:
Music has a unique emotional connection with humans. It is a means of connecting individuals from all over the world. On the other hand, it is a highly difficult task to generalize music and claim that everyone would prefer and enjoy the same type. Emotion-based music selection is important because it can assist humans in reducing stress. Its major purpose is to accurately predict the user's emotions, and play songs depending on the user's preferences. Using Human Computer Interaction (HCI), the proposed bot recognizes human emotions from facial emotions. Another significant challenge is the extraction of facial features from the user's face. The proposed CNN Algorithm is utilized in the proposed model to properly capture and recognize the user's face from the live webcam stream and to detect emotions based on facial factors such as lips and eyes. Also, an additional option will be provided for people to make a good choice manually.

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Contents

Music and emotion have a strong connection; it can be influenced by each other. A common way for people to express their emotions is through facial expressions. At the same time, certain music can change a person's emotional state. Emotion-based music recommendation is much needed as it helps people to relieve stress and listen to relaxing music that suits their current emotions. The primary objective of this research work is to capture users' emotions through facial expressions. Here, the music player intends to capture human emotions using the computer's webcam feature. Proposed application takes a picture of the user and then the image processing techniques extracts the features of the face and attempts to recognize the emotion that the person is attempting to express. [1]

< Previous | Back to Results | Next >