Real Time Behavior Analysis

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Abstract

The relationship between music and emotion is one that transcends most other sensory experiences. What people want to listen to at a given moment depends a lot on how they are currently feeling. Often, people want to listen to songs that are a certain “mood” that might not necessarily all be from the same genre to match how they are currently feeling.

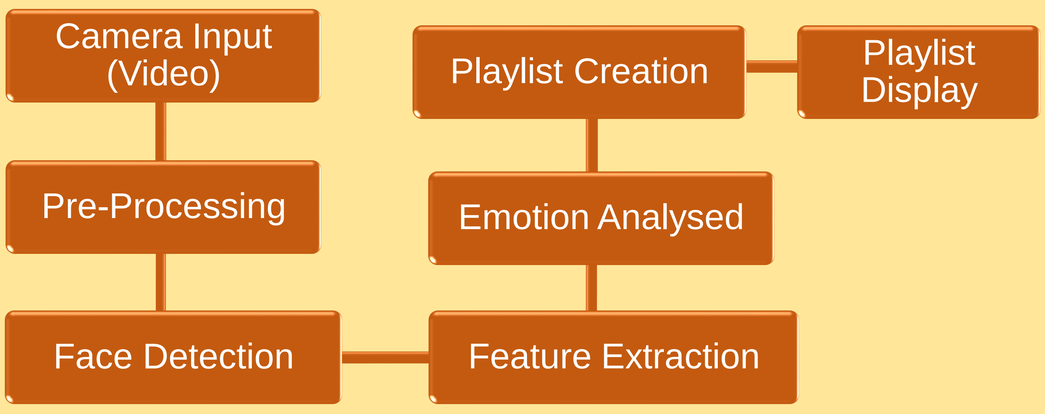
Our application creates personalized Spotify playlists with up to 35 songs that fit the user’s current mood. It uses Spotify API to collect top tracks of top artists, followed artists of the user and artists related to them and stores up to five hundred tracks as possible songs for the playlist. There are seven moods: happy, sad, angry, disgust, fear, surprise, contempt. The mood of the user is obtained using either by taking a picture frame of the user’s face through camera and generate a personalized playlist.

This eliminates the time-consuming and tedious task of manually segregating or grouping songs into different lists and helps in generating an appropriate playlist based on an individual's emotional features.

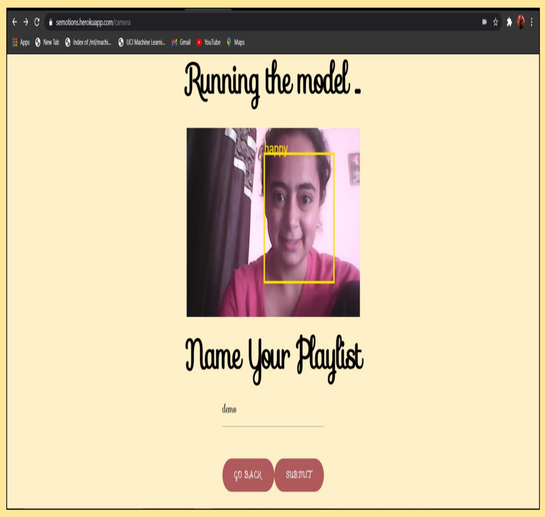
Features

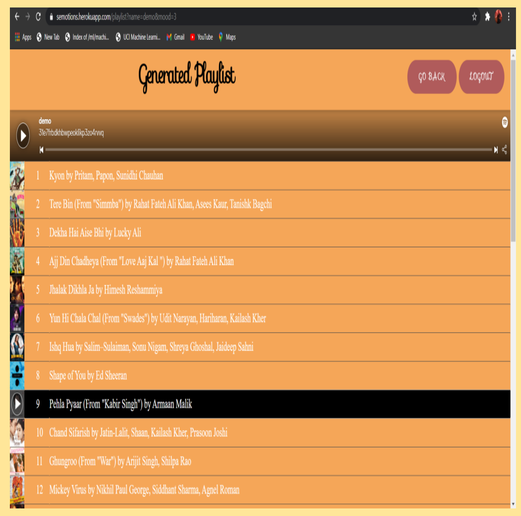
- Detect a real-time emotions in client machine.
- Generate personalized music playlist based on the current mood
- Easy to access
- Eliminates tedious task of manual playlist creation

Flow Diagram



Results





The above diagrams shows real time emotion recognition and playlist generated by system

References

https://www.tensorflow.org/js/guide
https://www.w3schools.com/python/
https://flask-doc.readthedocs.io/en/latest/
https://docs.opencv.org/3.3.1/d5/d10/tutorial_js_root.html
https://developer.spotify.com/

Conclusion

In this project, we presented a model to recommend a music based on the emotion detected without sending user data at server. This project is designed for the purpose of making better interaction between the music system and the user. The aim of this project to provide automated music recommendation system using users facial features together with the safety of users data