

Mood Maker

Leslie Raganit

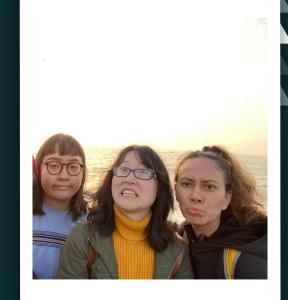
MS: Physics

Concentration: Astronomy

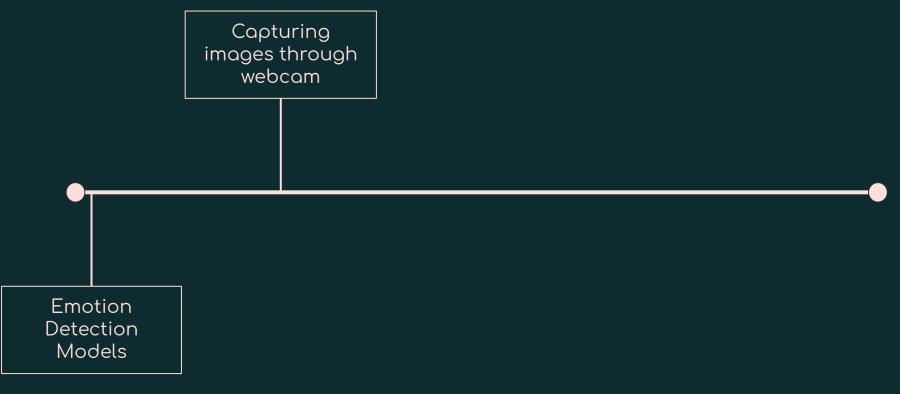
BS: Cell and Molecular Biology

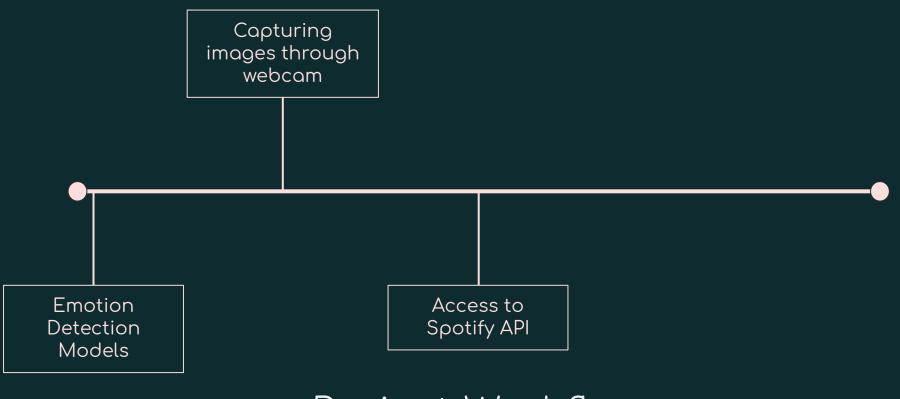
Minor: Chemistry

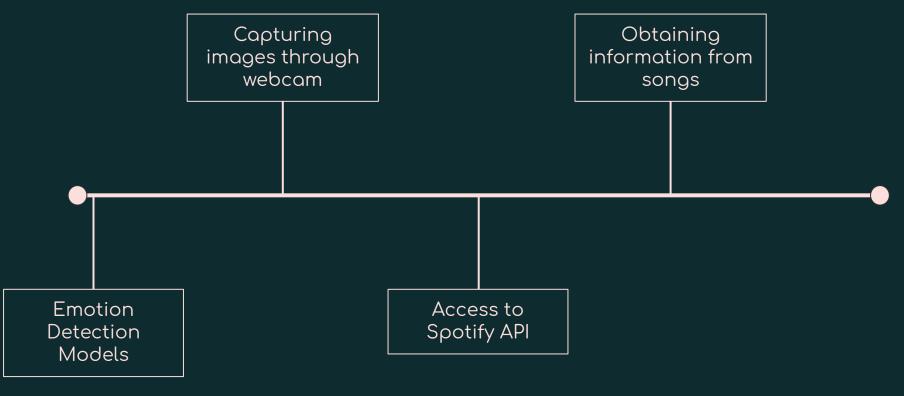


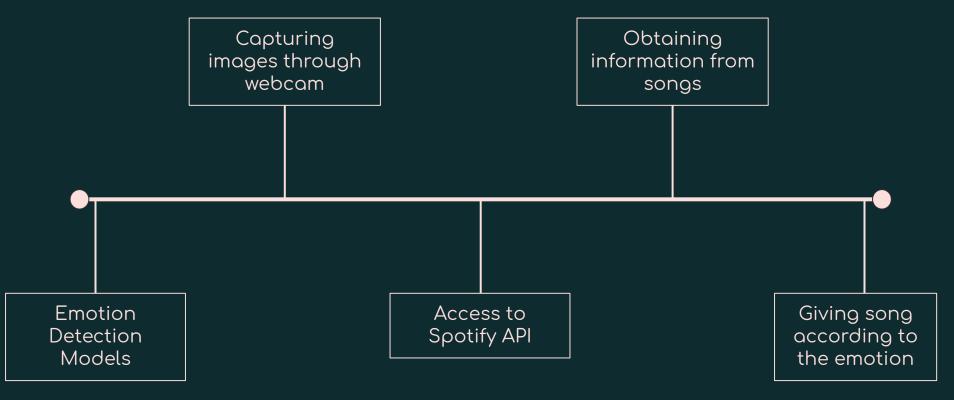


Emotion Detection Models









Project Workflow

Creating the Emotion Detection Models

The input images for the models have a resolution of 48 x 48 pixels. The emotions that I had focused on were happy, sad, angry, and neutral. This is because these emotions were the simplest to find fitting songs to. The final accuracy measurement of my model is 57%











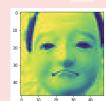














Determining the Song to Fit the Mood





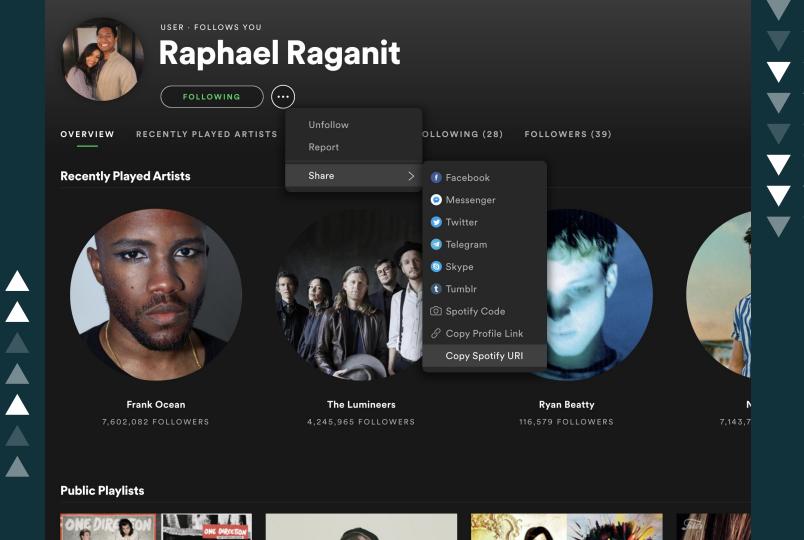


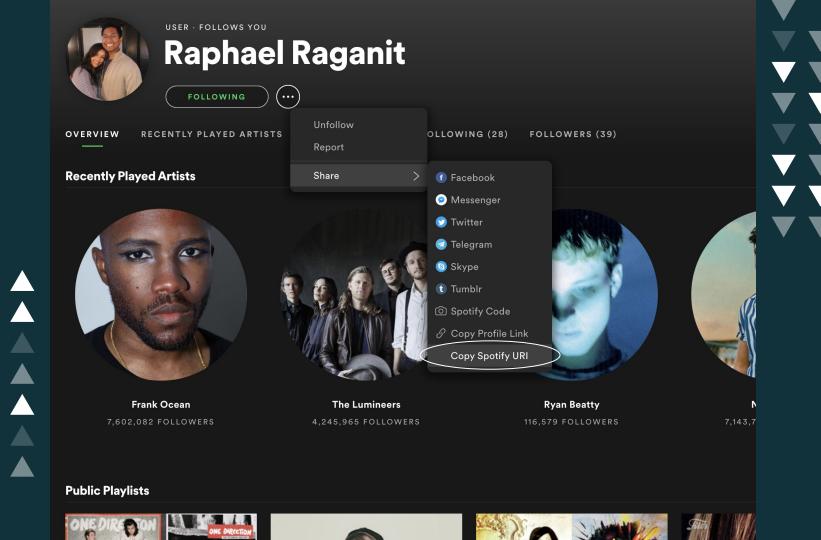


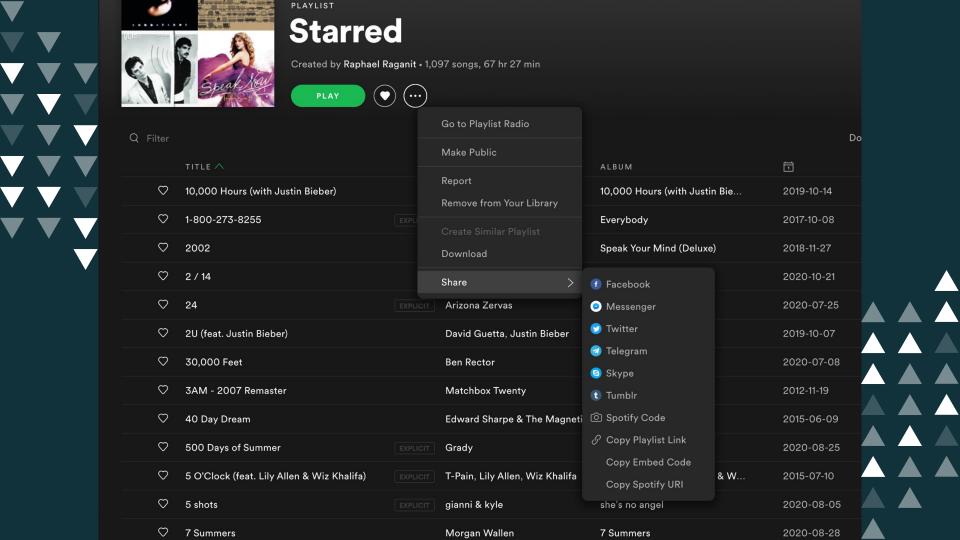
I obtained information about each of the songs from the following categories:

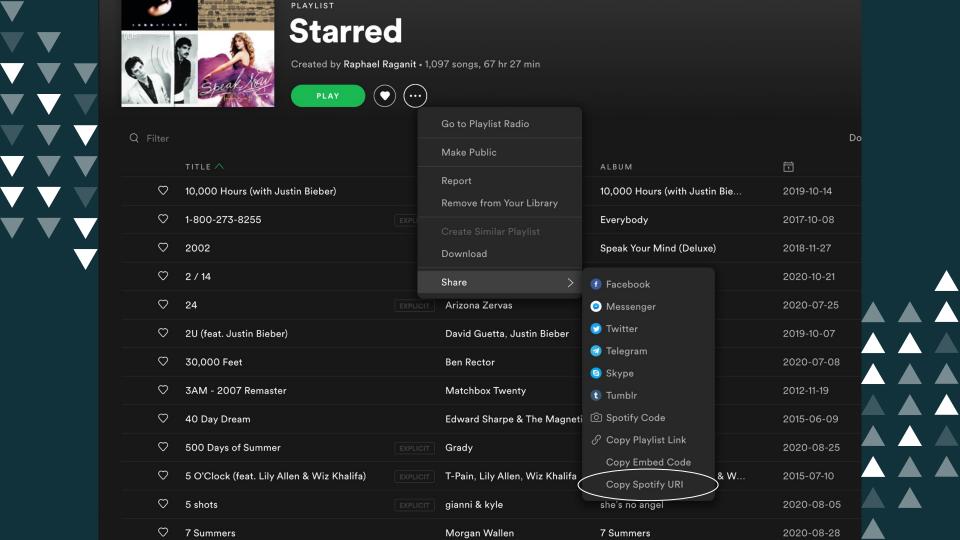
- danceability
- energy
- loudness
- speechiness
- acousticness
- instrumentalness
- liveness
- valence
- tempo

The playlists on the left were the base emotion playlists that I compared the user playlist to











Demo Time!



Neutral



Song: Time after time Artist: Quietdrive

Sad

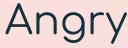


Song: Falls (ft. Sasha Sloan) Artist: ODESZA

Нарру



Song: You got me good Artist: Cimorelli





Song: Greek Tragedy Artist: The Wombats

Libraries used

- Pandas
- NumPy
- ❖ Os
- ❖ Glob
- Pillow
- ❖ TensorFlow
- Keras
- Scikit-Learn
- ***** CV2
- iMutils
- Spotipy

Thank you for listening:)

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Spotify API

In order to obtain information about songs listed in spotify, we need to access the Spotify API.

From there, Spotipy, a library that allows us to look into song details, gives us the ability to extract information from each of the songs.

In this app, we're going to be taking information from songs from the user's playlist.

