

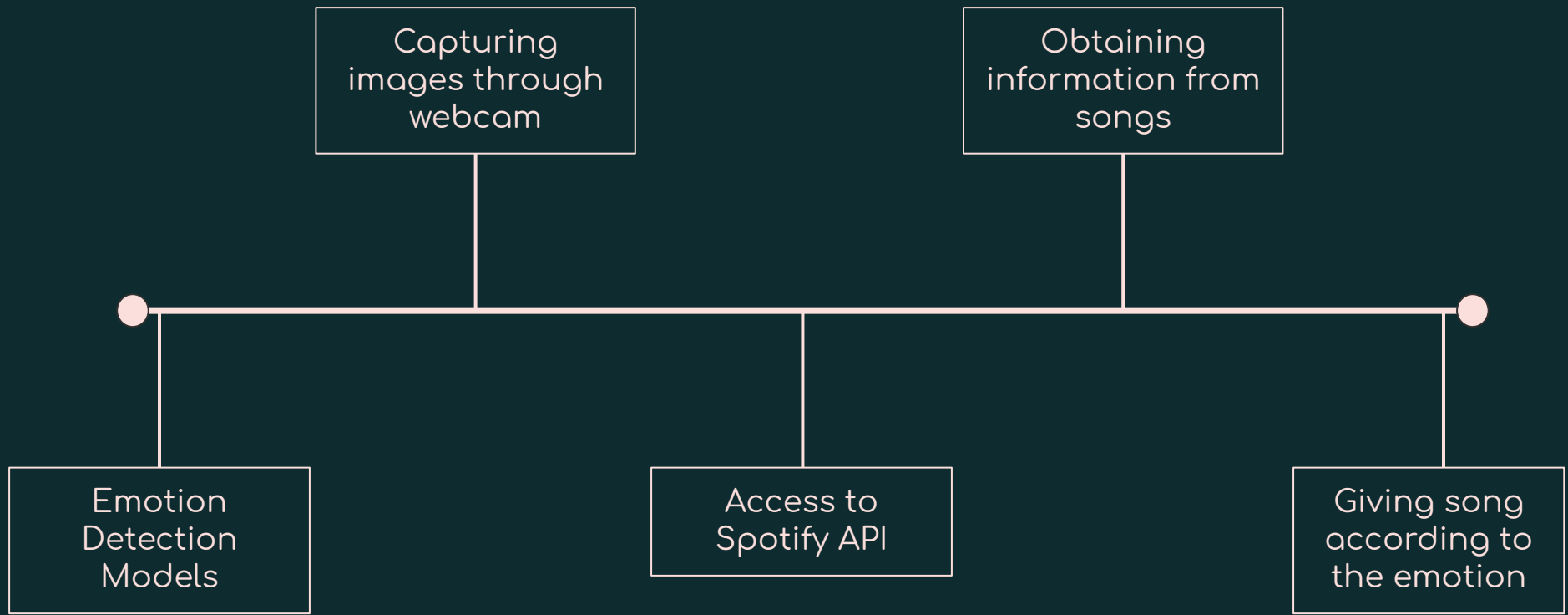
Mood Maker

Leslie Raganit

MS: Physics
Concentration: Astronomy

BS: Cell and Molecular Biology
Minor: Chemistry

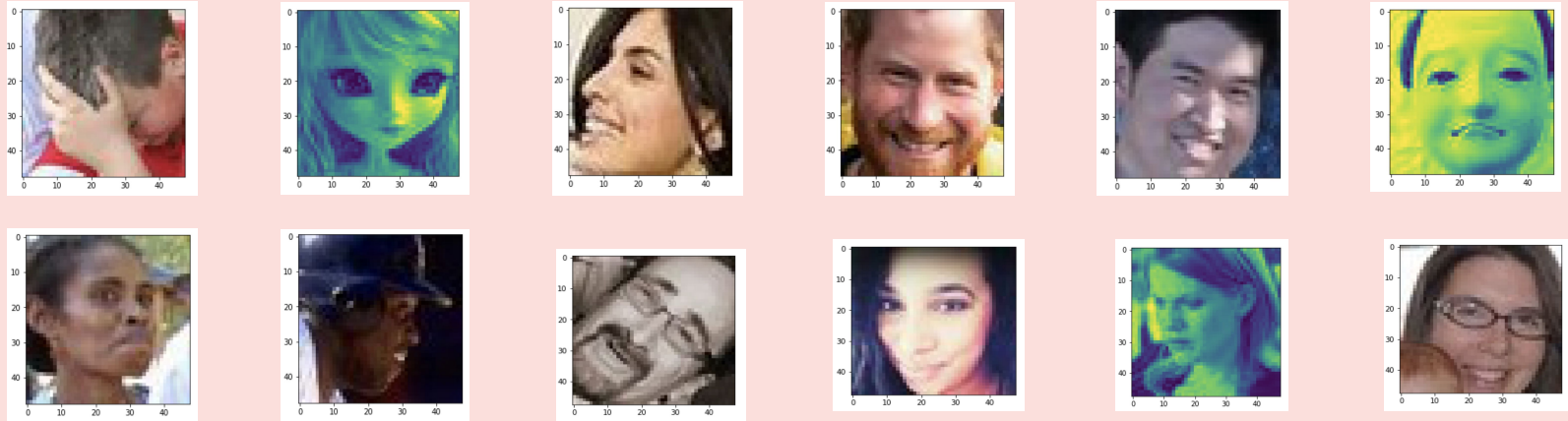




Project Workflow

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



USER · FOLLOWS YOU

Raphael Raganit

FOLLOWING



OVERVIEW

RECENTLY PLAYED ARTISTS

FOLLOWING (28)

FOLLOWERS (39)

Recently Played Artists

Unfollow

Report

Share



Facebook



Messenger



Twitter



Telegram



Skype



Tumblr



Spotify Code



Copy Profile Link



Copy Spotify URI



Frank Ocean

7,602,082 FOLLOWERS



The Lumineers

4,245,965 FOLLOWERS



Ryan Beatty

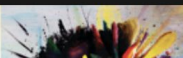
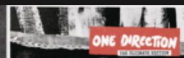
116,579 FOLLOWERS



N

7,143,7

Public Playlists





PLAYLIST

Starred

Created by Raphael Raganit • 1,097 songs, 67 hr 27 min

PLAY



Filter

TITLE ^

10,000 Hours (with Justin Bieber)

1-800-273-8255

2002

2 / 14

24

2U (feat. Justin Bieber)

30,000 Feet

3AM - 2007 Remaster

40 Day Dream

500 Days of Summer

5 O'Clock (feat. Lily Allen & Wiz Khalifa)

5 shots

7 Summers

Go to Playlist Radio

Make Public

Report

Remove from Your Library

Create Similar Playlist

Download

Share

ALBUM

10,000 Hours (with Justin Bie...

Everybody

Speak Your Mind (Deluxe)

Facebook

Messenger

Twitter

Telegram

Skype

Tumblr

Spotify Code

Copy Playlist Link

Copy Embed Code

Copy Spotify URI

1

2019-10-14

2017-10-08

2018-11-27

2020-10-21

2020-07-25

2019-10-07

2020-07-08

2012-11-19

2015-06-09

2020-08-25

2015-07-10

2020-08-05

2020-08-28

Demo Time!



Neutral



Song: Time after time
Artist: Quietdrive

Sad



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

Happy



Song: You got me good
Artist: Cimorelli

Angry



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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