Document

Run the codes in the following sequence:-

Note: No need to run Processing\_Model.py, keep all the codes in the same directory

Codes:

* twitter\_get\_data.py : Get twitter data using REST APIs, tweepy and python
* get\_facebook\_data.py : Get Facebook data using Graph API
* Processing\_Model.py: Pre-processing models
* Train\_emotion.py: Train on emotion dataset.
* Find\_Sentiment.py: Find Sentiment using vader lexicon python.
* Further\_Analysis.py: Find analysis and derive insights from twitter data.
* FB\_Analysis.py: Find analysis on facebook data.

Data is created in the following manner:-

CSVs:

* Facebook\_Data.csv: Facebook data created from API calls
* Emotion\_results.csv: Twitter data created from API calls
* Predicted\_Emotions.csv: Data file for twitter with emotions predicted
* Predicted\_Emotions\_FB.csv: Data file for facebook with emotions predicted
* Final\_Results.csv: Final Results for twitter (After sentiment and emotions are found)
* Final\_Results\_FB.csv: Final Results for facebook (After sentiment and emotions are found)
* Demographic\_Analysis.csv: Analysis for twitter based on locations.
* User\_Behaviour.csv: Analysis of user behavior (based on type of emotion)

Images

* FB\_Visualization\_Emotion.png : Visualization of the count of comments based on emotions
* FB\_Visualization\_Sentiment.png: Visualization of the count of comments based on sentiment
* Positive\_Count.png: Visualization of the count of positive tweets grouped by locations (Demographic Visualization)
* Negative\_Count.png: Visualization of the count of negative tweets grouped by locations (Demographic Visualization)

Folders

* train\_data : This folder contains the training dataset. (angry.csv,fear.csv, sad.csv,joy.csv)

The model learns from this dataset and makes the prediction accordingly. You can change these files as you require and the code is dynamic to the change. However, it requires data to be in the same format as in those files.