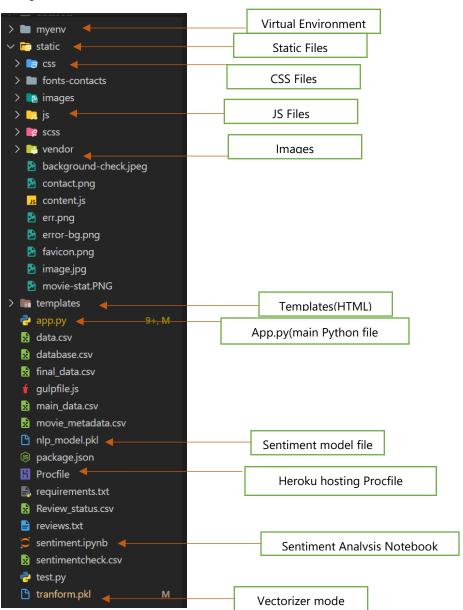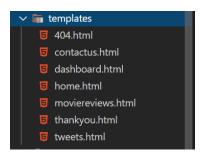# ☞ MovieStats

Title:	MovieStats
Date:	12-10-2020
Overview:	A real-time interactive website made using **Python Flask, Natural Language Processing, HTML, CSS, and JavaScript,** which provides real-time sentiment analysis of IMDB reviews and tweets of any movie user enters. The real-time data which is being scraped from the **Twitter** and **IMDB API** is visualized using **Chart.js**. Built a Sentiment. Analysis model using the **Naive Bayes** algorithm which provides an accuracy of 98.7%.
Datasets	- data.csv - database.csv - final_data.csv - main_data.csv - movie_metadata.csv - Review_status.csv - Sentimentcheck.csv
ML Model	- sentiment.ipynb - nlp_model.pkl - trasform.pkl
.ipynb_checkpoints	sentiment-checkpoint.ipynb

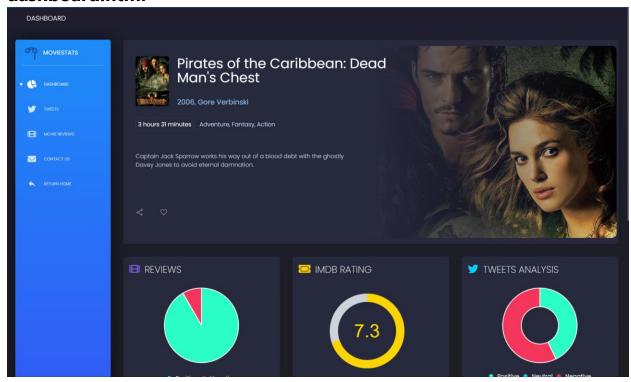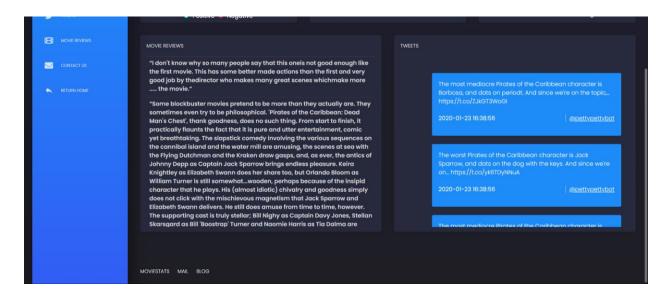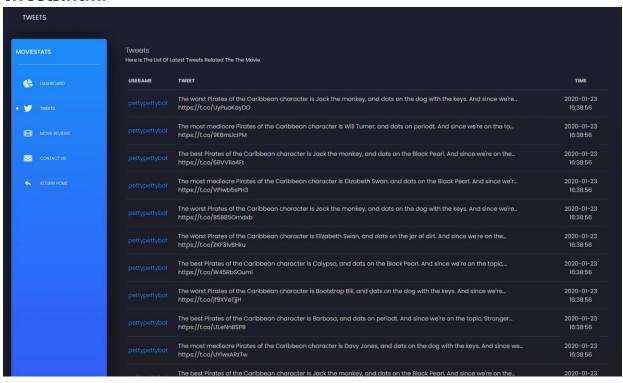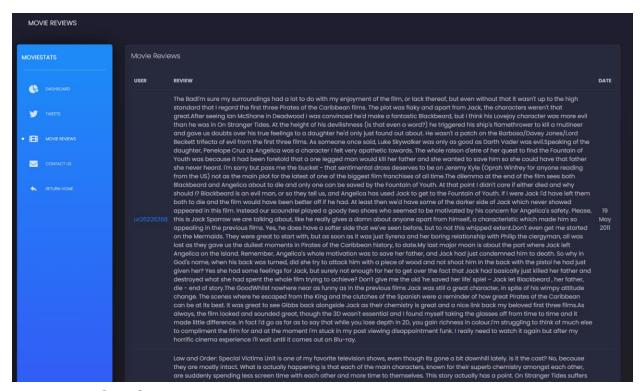| Templates(HTML5)	• home.html • dashboard.html • tweets.html • moviereviews.html • contactus.html • thankyou.html • 404.html
Static(CSS+JS)	**CSS** **JS** **Images:** • Background-check.jpeg • Contact.png • Favicon.png • Movie-stat.png
Python	app.py

Project Structure

```
> 📁 myenv                              ← Virtual Environment
∨ 📁 static                             ← Static Files
   > 📁 css                             ← CSS Files
   > 📁 fonts-contacts
   > 📁 images
   > 📁 js                              ← JS Files
   > 📁 scss
   > 📁 vendor                          ← Images
      background-check.jpeg
      contact.png
      content.js
      err.png
      error-bg.png
      favicon.png
      image.jpg
      movie-stat.PNG
> 📁 templates                         ← Templates(HTML)
   app.py              9+, M           ← App.py(main Python file
   data.csv
   database.csv
   final_data.csv
   gulpfile.js
   main_data.csv
   movie_metadata.csv
   nlp_model.pkl                       ← Sentiment model file
   package.json
   Procfile                            ← Heroku hosting Procfile
   requirements.txt
   Review_status.csv
   reviews.txt
   sentiment.ipynb                     ← Sentiment Analysis Notebook
   sentimentcheck.csv
   test.py
   tranform.pkl        M               ← Vectorizer mode
```

Templates:

```
∨ 📁 templates
   404.html
   contactus.html
   dashboard.html
   home.html
   moviereviews.html
   thankyou.html
   tweets.html
```

- **home.html**

- **dashboard.html**

- **tweets.html**

- **moviereviews.html**

- **contactus.html**
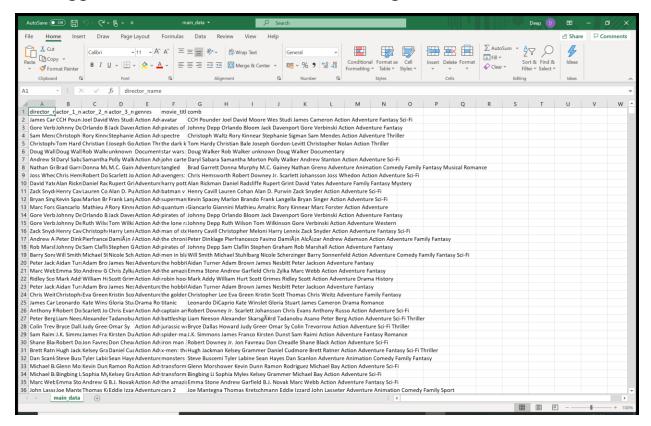
- **thankyou.html**

- **404.html**

Datasets:

- **main_data.csv**

Get suggestions of movie names on Home Page
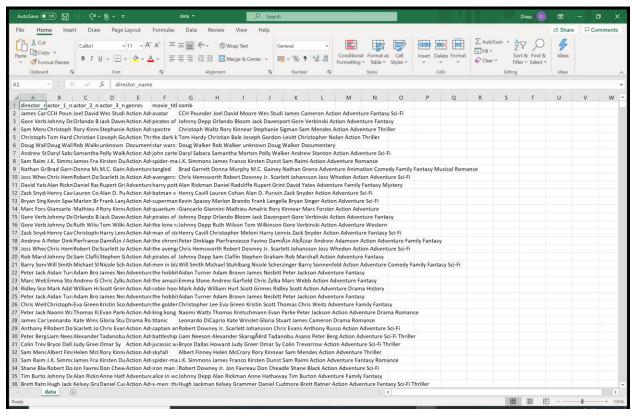
- **database.csv**
  It is to save peoples response for contact us form
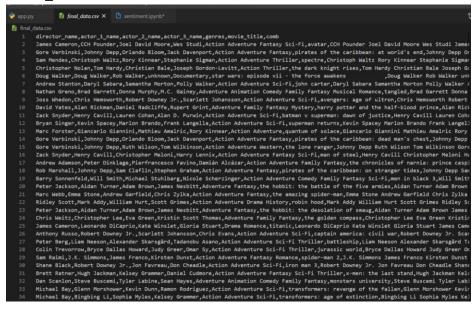
- **data.csv**

- **final_data.csv**

- **movie_metadata.csv**

- **Review_status.csv**

- **Sentimentcheck.csv**

Python (app.py)

-It is our main file

-Flask is used to create a server

@app.route("/")->home.html

@app.route("/recommend")->dashboard.html

@app.route("/contact_us")->contactus.html

@app.route("/thankyou")->thankyou.html

@app.route("/tweets.html")->tweets.html

@app.route("/moviereviews.html")->movierevies.html

Note: Download Requirements.txt for Python Packages

Sentiment.ipynb: Accuracy 98.77% ;for analysis of moviereviews

Tweets are analyzed using python TextBlob Package which gives around 70 percent accuracy

Tweets Sentiment Analysis	Movie Reviews Analysis
Sentiments analyzed using TextBlob Library	Sentiments analyzed using sentiments.ipynb
Accuracy:70-80%	Accuracy:98.77%