

Sentiment Analysis of Tweets

Group name :

Technocrats

Members :

Shiven Paudyal (RA1911003010446)
Bachhu Damodar Gupta (RA1911003010448)
Anushka (RA1911003010450)
Gudimetla Dinesh (RA1911003010459)
Vishal Ramanathan (RA1911003010461)
Harshini Marappan (RA1911003010462)



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Introduction

Sentiment analysis is the process of analysing the emotion of a text .

It has variety of real-time applications , some of which are listed below :

- Social media monitoring
- Customer support
- Customer feedback
- Brand monitoring and reputation management
- Voice of customer (VoC)
- Voice of employee
- Product analysis
- Market research and competitive research



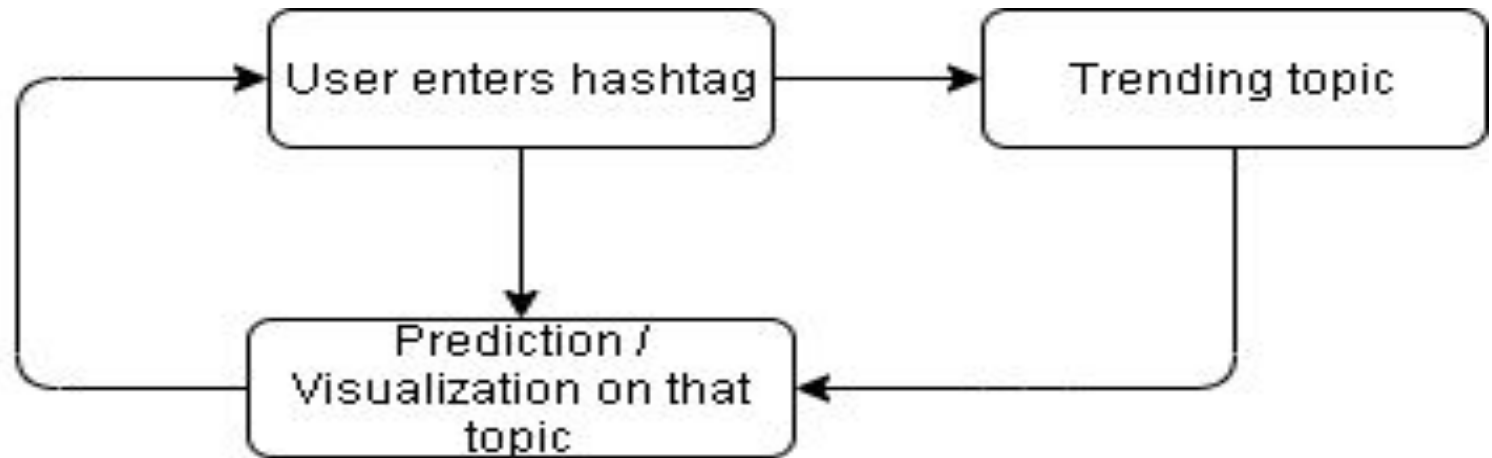
Overview of the project

We plan to make a sentiment analysis application where in :

- The user would have an option to enter text (typically a twitter hashtag or a twitter username)
- Upon clicking the search button she / he would get the prediction / visualisation of the sentiment analysis performed on the tweets related to that particular topic.
- Additionally trending topics would be suggested to the users to keep them up-to-date.



Flow Chart





Tech stack used

- **Languages** : Python
- **Frameworks** : TensorFlow , Flask , Docker
- **Libraries** :

Data Preparation : Pandas , NumPy

Data Visualisation : Matplotlib , Seaborn

Natural Language Processing : NeatText , TextBlob

Model Building : ScikitLearn , Joblib

Model Interpretation : Eli5 , Lime

- **Data set used** : Sentiment140 , emotion_dataset_2.csv
- **Environment used** : VS code , Google colab .



Reference

- <https://pythonguides.com/python-tkinter-search-box/>
- http://www.codingandanalytics.com/2018/04/blog-post_17.html
- <https://www.earthdatascience.org/courses/use-data-open-source-python/intro-to-apis/twitter-data-in-python/>
- <https://rapidapi.com/blog/how-to-use-the-twitter-api-with-python>
- <https://youtu.be/t1TkAcSDsI8>
- <https://github.com/Jcharis/end2end-nlp-project/blob/main/data/EmotionDetectionNLP-End2End.pdf>



Thank
You