

Sentiment Analysis on Twitter Data

(CSE VI Semester Mini Project)

2023-24



Submitted to:

Ms Himadri

(CC-CSE-K-VI-Sem)

GEHU, D.Dun

Submitted by

Sagar Chandra Kalauni

Roll No.- 20011174

CSE-K-VI-Sem

DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING

GRAPHIC ERA HILL UNIVERSITY, DEHRADUN

CERTIFICATE

Certified that Sagar Chandra Kalauni (Roll No.-20011174) has developed mini project on “ **Sentiment Analysis On Twitter Data**” .This project carried out by student is their own work as best of my knowledge.

Date: 20th July 2023

Ms Himadri

Class Co-ordinator

CSE-K-VI-SEM

(CSE Department)

GEHU Dehradun

ACKNOWLEDGEMENT

I would like to particularly thank my Class Co- **Ms Himadri** for his patience, support and encouragement throughout the completion of this project.

At last, but not the least I greatly indebted to all other persons who directly or indirectly helped me during this course.

Sagar Chandra Kalauni

Univ. Roll No.- 20011174

B.Tech CSE-K-VI-Sem

Session: 2023-2024

GEHU, Dehradun

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INTRODUCTION

Sentiment analysis is the automated process of identifying and classifying subjective information in text data. This might be an opinion, a judgment, or a feeling about a particular topic or product feature.

The most common type of sentiment analysis is ‘polarity detection’ and involves classifying statements as *Positive*, *Negative* or *Neutral*

About project

Sentiment analysis uses Natural Language Processing (NLP) to make sense of human language, and machine learning to automatically deliver accurate results.

Connect sentiment analysis tools directly to your social platforms, so you can monitor your tweets as and when they come in, 24/7, and get up-to-the-minute insights from your social mentions.

REQUIREMENTS OF PROJECT

1.1 Software Requirements

- Visual Studio Code IDE

Version: 1.68

- Python
Version : 3.10.4

1.2 Libraries

- Tweepy : easy-to-use Python library for accessing the Twitter API.
- Textblob: TextBlob is a Python (2 and 3) library for processing textual data. It provides a simple API for diving into common natural language processing (NLP) tasks such as part-of-speech tagging, noun phrase extraction, sentiment analysis, classification, translation, and more.
- Tweepy.streaming : The Twitter streaming API is used to download twitter messages in real time. It is useful for obtaining a high volume of tweets, or for creating a live feed using a site stream or user stream.

OUTPUT

```
PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL JUPYTER
PS C:\Users\SAGAR CHANDRA KALAUN> python -u "c:\Users\SAGAR CHANDRA KALAUN\Desktop\twitter\code.py"
      tweets      id  len      date      source  likes  retweets  sentiment
0 To all of those who have asked, I will not be ... 1347569870578266115  88 2021-01-08 15:44:28+00:00 Twitter for iPhone 621280  77022  0
1 The 75,000,000 great American Patriots who vot... 1347555316863553542 140 2021-01-08 14:46:38+00:00 Twitter for iPhone 518327  86842  1
2 https://t.co/csX07ZVWGe 1347334804052844550  23 2021-01-08 00:10:24+00:00 Twitter Media Studio 636876 127492  0
3 I am asking for everyone at the U.S. Capitol t... 1346912780700577792 144 2021-01-06 20:13:26+00:00 Twitter for iPhone 700522 136820  1
4 Please support our Capitol Police and Law Enfo... 1346904110969315332 112 2021-01-06 19:38:58+00:00 Twitter for iPhone 536715  88803  1
PS C:\Users\SAGAR CHANDRA KALAUN>
```

This is output of sentiment analysis on the tweets done by Donald J. Trump.

CONCLUSION

I have successfully created a code that can access data from the twitter application and analyse the sentiments of the tweets.

I this ,I learned how to install certain libraries and link them to python, how to work with twitter libraries.

Sentiment analysis helps data analysts within large enterprises gauge public opinion, conduct nuanced market research, monitor brand and product reputation, and understand customer experiences. In addition, data analytics companies often integrate third-party sentiment analysis APIs into their own customer experience management, social media monitoring, or workforce analytics platform, in order to deliver useful insights to their own customers.

REFERENCES

[U tube](#)
[Google](#)