```
△ TwitterScraper.ipynb ☆
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      □ Comment 😃 Share 🌣 🧶
                + Code + Text
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               ↑ ↓ © 目 ‡ 🖟 🔋 :
                  | pip install tweepy
import tweepy
import tatetime
import pytz
| pip install stop_words --use-pep517
import nltk
nltk.download('stopwords')
from nltk.cropus import stopwords
from nltk.util import ngrams
from stop_words import get_stop_words
import re-
                                  !pip install vaderSentimen
                                  from vaderSentiment.vaderSentiment import SentimentIntensityAnalyzer from nltk import bigrams
                               Requirement already satisfied: tweepy in c:\python31\\lib\site-packages (4.12.1)
Requirement already satisfied: oauthlib<4,>-3.2.0 in c:\python31\\lib\site-packages (from tweepy) (3.2.2)
Requirement already satisfied: oauthlib<5,>-3.2.7 in c:\python31\\lib\site-packages (from tweepy) (2.28.1)
Requirement already satisfied: requests<3,>-2.27.0 in c:\python31\\lib\site-packages (from tweepy) (2.28.1)
Requirement already satisfied: requests-contrible<5,>-1.2.0 in c:\python31\\lib\site-packages (from tweepy) (1.3.1)
Requirement already satisfied: dina(4.>-2.5 in c:\python31\\lib\site-packages (from requests<3,>-2.27.0-\tweepy) (2.1.1)
Requirement already satisfied: dina(4.>-2.5 in c:\python31\\lib\site-packages (from requests<3,>-2.27.0-\tweepy) (3.4)
Requirement already satisfied: dina(4.>-2.5 in c:\python31\\lib\site-packages (from requests<3,>-2.27.0-\tweepy) (2.4.2)
Requirement already satisfied: cratifi>-2.017.4.17 in c:\python31\\lib\site-packages (from requests<3,>-2.27.0-\tweepy) (2.20.1)
Requirement already satisfied: cratifi>-2.017.4.17 in c:\python31\\lib\site-packages (2018.7.23)

[altk data] Downloading package stopwords to 
[altk data] Downloading package stopwords to 
[altk data] Package stopwords is already up-to-date!
Requirement already satisfied: cratifi>-2.017.4.17 in c:\python31\\lib\site-packages (from vaderSentiment) (2.28.1)
Requirement already satisfied: cratifi>-2.5 in c:\python31\\lib\site-packages (from requests->vaderSentiment) (2.1.1)
Requirement already satisfied: inda(4.>.2.5 in c:\python31\\lib\site-packages (from requests->vaderSentiment) (2.2.1)
Requirement already satisfied: cratifi>-2.017.4.17 in c:\python31\\lib\site-packages (from requests->vaderSentiment) (2.2.1)
              - For a User Input on stock
>_
                    [] # Set up the API with your Twitter developer account's credentials consumer_key = ""
                                  auth = tweepy.OAuthHandler(consumer_key, consumer_secret)
auth.set_access_token(access_token, access_token_secret)
api = tweepy.API(auth)
                  [ ] stock_ticker = str(input('Enter the stock code'))
stock_ticker_full = str(input('Enter the stock name'))
stock_hashtag = '#' + stock_ticker
                for username in usernames:

tweets = api.user_timeline(screen_name-username, count-100)
for tweet in tweets:

if stock_ticker in tweet.text or stock_ticker_full in tweet.text:
    data.append(tweet.text)
                                tweets = api.search_tweets(q-stock_hashtag, count=100)
for tweet in tweets:
    data.append(tweet.text)
                    [ ] stop_words = list(stopwords.words('english')) + list(get_stop_words('en')) pattern = '[0-9]' cleaned_data = []
                                 def generate clean ngrams(tweet text, n):
                                          tweet_text = tweet_text.lower()
tweet_text = re.sub(r'['a-zA-Z8-9\s]', ' ', tweet_text)
tweet_text = re.sub(pattern, 'http', tweet_text)
                                          tokens = [token for token in tweet_text.split(' ')
    if token != ''
    and token not in stop_words
    and 'http' not in token]
                                 for d in data:
    cleaned_data.append(generate_clean_ngrams(d, 2))
                               for data in cleaned_data:
    for d in data:
    for d in data:
    bignam_text - " "_join(d)
    scores - analyzer.polarity_scores(bignam_text)
    score.append(scores['compound'])
                                Sentiment Score for the stock ZOMATO: 0.008237021716649428
              For NSE top 500
                   [ ] import pandas as pd
import numpy as np
                   [ ] nsclist- pd.read_csv('C:/Users/abhit/Desktop/COLLEGE/SEM X/SEMX_Git/CC/ind_nifty580list.csv') nsclist.head()
                                                     Company Name Symbol

3M India Ltd. 3MINDIA
                                  4 APL Apollo Tubes Ltd. APLAPOLLO
                  [] # Set up the API with your Twitter developer account's credentials consumer_key = ""

consumer_secret = ""

access_token = ""

access_token = ""
```

```
auth.set_access_token(access_token, access_token_secret)
api = tweepy.API(auth)
                                          \Users\Public\Documents\Wondershare\CreatorTemp\ipykernel_26204\571671230.py:1: FutureMarning: The default value of regex will change from True to False in a future version. In addition, single character regular expressions will *mselist['Company Name'] = mselist['Company Name']; *mselist['Company Name'
[] nselist['Sentiment'] = 0
for index in nselist.index:
data = []
stock_ticker = nselist['Symbol'][index]
stock_ticker_full = nselist['Company Name'][index]
stock_hashtag = 'm' + stock_ticker
                                             for username in usernames:

tweets = api.user.timeline(screen_name=username, count=100)
for tweet in tweets:

if stock_ticker in tweet.text or stock_ticker_full in tweet.text:

data.append(tweet.text)
                                               tweets = api.search_tweets(q-stock_hashtag, count=100)
for tweet in tweets:
    data.append(tweet.text)
                                               cleaned_data = []
def generate_clean_ngrams(tweet_text, n):
                                                                  tokens = [token for token in tweet_text.split(' ')
    if token != '
    and token not in stop_words
    and 'http' not in token]
                                                                  output = list(ngrams(tokens, n))
return output
                                                for d in data:
    cleaned_data.append(generate_clean_ngrams(d, 2))
                                                analyzer = SentimentIntensityAnalyzer()
                                             score = []
for data in cleaned data:
    for d in data:
        bigram_text = " ".join(d)
        scores = analyzer.polarity_scores(bigram_text)
        score.append(scores['compound'])
                                                average_score = sum(score) / len(score)
nselist['Sentiment'] | nelist['Sentiment'] | nelist['Sentiment'] - stock_ticker] - average_score
mselist['Sentiment'] - nwhere(nselist['Symbol'] -- stock_ticker, avera
print('Index: ',index,' ',stock_ticker,': ',average_score)
                     C:UsersPublicUbcuments\Wondershare\CreatorTemp\Ipykernel_26284\2604785966.py:49: SettingWithCopykarming:
A value is trying to be set on a copy of a lice from a DataFrame
See the carevast in the documentation: httms://impais.pydiata-ore/bands-docs/stable/user_guide/indoxing.html#returning-a-view-versus-a-copy
msetist['Sentisent'|[nselist['Symbol'] = stock_ticker] = average_score
Index: 0 AINIDIA: 0 a02208221485574297
Index: 1 ABB: 0.02208221485574297
Index: 1 ABB: 0.058084089799918064
Index: 1 ABB: 0.058084089799918064
Index: 3 AINIDIA: 0.058084089799918064
Index: 3 AINIDIA: 0.081510675818069
Index: 6 AARITOMICS: 0.02460808080808081
Index: 7 ANNITAMS: 0.08081508097838126062
Index: 6 AARITOMICS: 0.0825080808080808
Index: 1 ADANITAMS: 0.08151067581260808
Index: 1 ADANITAMS: 0.08151067581260808
Index: 3 AINIMITAMS: 0.08151067581260808
Index: 1 ADANITAMS: 0.08151067581260808
Index: 1 AGANITAMS: 0.08151067581260808
Index: 2 AGANITAMS: 0.081506525724128
Index: 3 AGANITAMS: 0.0815066712544
Index: 5 AGANITAMS: 0.0815066712544
Index: 6 AGANITAMS: 0.0815066712644
Index: 6 AGANITAMS: 0.0815066712644
Index: 6 AGANITAMS: 0.0815066712644
Index: 6 AGANITAMS: 0.0815066712644
Index: 7 AGREE 0.081506718060807131439
Index: 8 AGANITAMS: 0.081506671806497131439
Index: 6 AGANITAMS: 0.081506671806497131439
Index:
                             C:\Users\Public\Documents\Wondershare\CreatorTemp\ipykernel_26284\2694785966.py:49: SettingWithCopyWarning: A value is trying to be set on a copy of a slice from a DataFrame
```

Colab paid products - Cancel contracts here

. . . .