

```
In [19]: from tweepy import Stream
from tweepy import OAuthHandler
from tweepy.streaming import StreamListener
import json
import pandas as pd
import csv
import re #regular expression
from textblob import TextBlob
import string
import tweepy

consumer_key = 'aTQglbfb34y4Gs01JIXYvfGKk'
consumer_secret = 'hRm0Ai4X9n5fpQq3KCDkCnzzHWH0oskVLRAGWAlq4JRMS4LHjk'
access_token= '110553462733226496-TvYLHsfLCDJ5ugBdidH8o78NCFW9Jn'
access_secret = 'paQrVYAp8Hbz7sDoxkNrJ1eqsvVvzsH5Lnp5aW6YA61bt'

auth = tweepy.OAuthHandler(consumer_key, consumer_secret)
auth.set_access_token(access_token, access_secret)
api = tweepy.API(auth)
#l = StdOutListener()

search_words = "#tata,#united airlines,#spirit"
date_since = "2000-11-16"

tweets = tweepy.Cursor(api.search,
                        q=search_words,
                        lang="en",
                        since=date_since).items()

tweets
```

```
Out[19]: <tweepy.cursor.ItemIterator at 0x29936a21b80>
```

```
In [4]: for tweet in tweets:
        print(tweet.text)
```

RT @nana_arko_: All New 2020 MacBook Pro 13" with Apple M1 Chip Available at @iTech911

RAM: 8GB
Size: 256GB

For GHC 8,500 ONLY

Free Deli...

RT @Olivia45439274: #हम_सब_साथ_हैं #Apple #Microsoft

If you agree so RT <https://t.co/RqJHUZ5g1L> (<https://t.co/RqJHUZ5g1L>)

RT @notchla_: Test #apple 3

RT @Hormobaba: Here is a trending music with great musical tune Composed by #Liefedina ft. #Peter

Title: Its Sweet

Check the link below t...

```
In [15]: for tweet in tweets:
        print(tweet.text)
```

Biden will also inherit responsibility for 945 Superfund sites identified as vulnerable to #climatechange-intensifi... <https://t.co/8bLkziw7qZ> (<https://t.co/8bLkziw7qZ>)

RT @SFotonium: 2020: Year in Review

2020 was an atypical year for humans and the environment

<https://t.co/jNc6AHmMsq> (<https://t.co/jNc6AHmMsq>)

#AirPollution #Wildfir...

In California it's raining, FINALLY

... but this also increases the risk of landslides, floodings and mudslides

..... <https://t.co/apM0l35KR8> (<https://t.co/apM0l35KR8>)

RT @SFotonium: 2020: Year in Review

2020 was an atypical year for humans and the environment

<https://t.co/jNc6AHmMsq> (<https://t.co/jNc6AHmMsq>)

#AirPollution #Wildfir...

California Fire Map: The latest on wildfires across the state

#Wildfires

#California

#LosAngeles

```
In [14]: tweets = tweepy.Cursor(api.search,
                                q=search_words,
                                lang="en",
                                since=date_since).items()

tweets
```

Out[14]: <tweepy.cursor.ItemIterator at 0x1fc979b4340>

```
In [3]: consumer_key = 'sg8dLx18zxuhY7yFsvydnffiq'
consumer_secret = 'BUjiqsSQdIHLJRZztws8ZzCmLnI3DVwzjT5FCy54JazUF4EwLp'
access_token= '110553462733226496-U3bUjr62dpz96U8jC0QZW0D055btwa'
access_secret = '8TpraG04a4MAJcX0eL0UywGmjwHRT1FoJ9LRht6IqWYyI'
```

```
In [9]: auth = tweepy.OAuthHandler(consumer_key, consumer_secret)
auth.set_access_token(access_token, access_secret)
api = tweepy.API(auth)
#l = StdOutListener()
```

```
In [5]: df3 = pd.DataFrame(columns = ['Tweets', 'User', 'User_statuses_count',
                                     'user_followers', 'User_location', 'User_verified',
                                     'fav_count', 'rt_count', 'tweet_date'])
```

```
In [6]: sname=input("please input the twitter handle with @ symbol")
tweets = api.user_timeline(screen_name=sname,count=500)
```

please input the twitter handle with @ symbol@SuruchiSpicesIN

```

In [10]: df1={}
         for info in tweets:

             df1['Tweets'] = info.text
             df1['User'] = info.user.name
             df1['User_statuses_count'] = info.user.statuses_count
             df1['user_followers'] = info.user.followers_count
             df1['User_location'] = info.user.location
             df1['User_verified'] = info.user.verified
             df1['fav_count'] = info.favorite_count
             df1['rt_count'] = info.retweet_count
             df1['tweet_date'] = info.created_at
             df3=df3.append(df1,ignore_index=True)

             print(info.retweet_count)
             print(info.created_at)
             print(info.favorite_count)
             print(info.user.verified)
             print(info.user.followers_count)
             print(info.user.statuses_count)
             print(info.text)
             print(info.id)
             print(info.user.location)

```

```

4
2020-12-20 14:34:46
0
False
20
334
RT @iamnikhilnanda: Nation first for every industrialist.
#tata is idolised by Industrialists world over, for his unflinching nation fi
rst....
1340666959684255745

2
2020-12-20 14:33:13
0
False
111
15633
RT @cobachi02: #BT21 #BT21BABY
#BT21fanart #UNISTARS
#KOYA #RJ #SHOOKY

```

```
In [8]: df3.to_csv(sname+".csv")
```

```
In [9]: df=pd.read_csv(sname+".csv")
```

In [12]:

df3

Out[12]:

	Tweets	User	User_statuses_count	user_followers	Us
0	RT @mrmarkgammon: Any runners out there had an...	AppleRetweetBot	239671	1741	
1	RT @Fabriziobustama: .@Apple Concept Car.\n#CE...	Richard Cabrera	17642	381	
2	Any runners out there had any good (or bad) ex...	Mark Gammon	13	66	
3	HomePod Mini is fatally flawed. Won't connect ...	Rebel Caws	219	20	1
4	Super Game Talk Video Alpha! https://t.co/BgG3...	IndieVideoGames.com	301928	25081	Sa
...	
2998	RT @KStars722: BT21 WALLET\n\nPrice:\n£15.50\n...	Jules ♡♡ <i>Breath of love</i>	9078	531	
2999	RT @cbdhage: #TATA Projects started barricadin...	NIKHIL SOLANKI	5832	38	नई
3000	RT @KpopDAD1: Got a big hug from a big #TaTa a...	BE <i>Sabry</i> ~사브리나~ 🎵	21272	222	
3001	BT21 WALLET\n\nPrice:\n£15.50\n\nUK Shipping:\n...	K Stars	1288	1484	
3002	ETAuto Ex-industries minister says companies...	ET Auto	88871	29295	

3003 rows × 9 columns



In [11]: *#cleaning the tweets and punctuations*

```
def remove_punct(text):
    text = "".join([char for char in text if char not in string.punctuation])
    text = re.sub('[0-9]+', '', text)
    return text

df3['clean_tweet'] = df3['Tweets'].apply(lambda x: remove_punct(x))
df3.head(10)
```

Out[11]:

	Tweets	User	User_statuses_count	user_followers	User_location	User_verified	fav
0	आप सभी को होली की हार्दिक शुभकामनाएं \n\nआओ इ...	Suruchi Spices	106	36	Nagpur, India	False	
1	#Suruchi spices, presenting a complete range o...	Suruchi Spices	106	36	Nagpur, India	False	
2	Har Match ka All- Rounder, presenting Suruchi C...	Suruchi Spices	106	36	Nagpur, India	False	
3	#Good food #keeps you going!\n\nEat pure, Stay...	Suruchi Spices	106	36	Nagpur, India	False	
4	A tribute to each women who made our life wond...	Suruchi Spices	106	36	Nagpur, India	False	
5	बम बम भोले !\nमहाशिवरात्रि के पावन अवसर पर आप ...	Suruchi Spices	106	36	Nagpur, India	False	
6	#Dekho apun ki IDLI LOG kuch kar reli hai offi...	Suruchi Spices	106	36	Nagpur, India	False	
7	Getting late for office? Don't have time to co...	Suruchi Spices	106	36	Nagpur, India	False	
8	Cancer is a very rapidly increasing problem in...	Suruchi Spices	106	36	Nagpur, India	False	
9	Wedding Invitation\n\nJalebi weds Rabri\nLocat...	Suruchi Spices	106	36	Nagpur, India	False	

In [12]: *#creating the wordcloud*

#CREATING A WORDCLOUD

```
from wordcloud import WordCloud, STOPWORDS
import matplotlib.pyplot as plt
import pandas as pd
import numpy as np
from PIL import Image
```

[illegible]

In [14]: *#sentiment analysis for the tweets*

```
def analyze_sentiment(tweet):
    analysis = TextBlob(tweet)
    if analysis.sentiment.polarity > 0:
        return 'Positive'#analysis.sentiment.polarity
    elif analysis.sentiment.polarity ==0:
        return 'Neutral'#analysis.sentiment.polarity
    else:
        return 'Negative'#analysis.sentiment.polarity
```

In [15]: *#splitting the cleaned text by \n*

```
dataset_new=dataset.split('\n')
#creating new dataframe to store the value of sentiment
senti=pd.DataFrame(columns=['senti'])

for i in range(len(dataset_new)):
    senti.loc[i, 'senti']=analyze_sentiment(dataset_new[i])
    print(senti)

    i=i+1
```

```
      senti
0  Neutral
      senti
0  Neutral
1  Positive
      senti
0  Neutral
1  Positive
2  Neutral
      senti
0  Neutral
1  Positive
2  Neutral
3  Positive
      senti
0  Neutral
1  Positive
2  Neutral
3  Positive
```

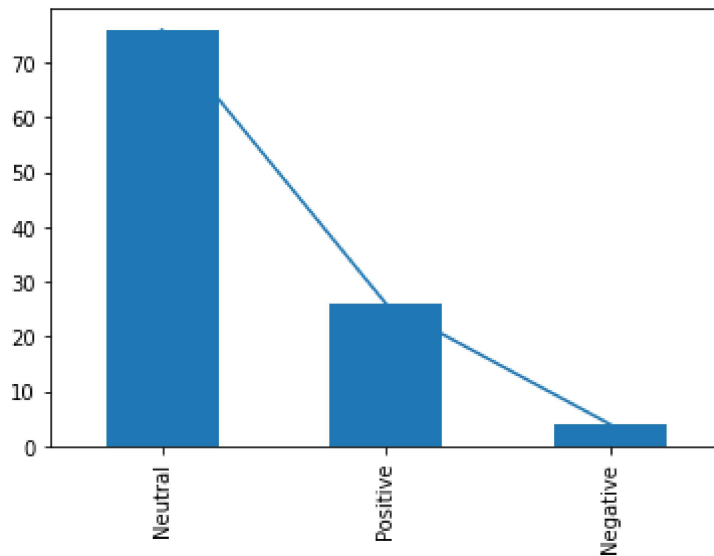
```
In [16]: import seaborn as sns

import matplotlib.pyplot as plt

#plt.bar()
senti['senti'].value_counts().plot()
senti['senti'].value_counts().plot.bar()
```

```
c:\users\somyk\appdata\local\programs\python\python38-32\lib\site-packages\pandas\plotting\_matplotlib\core.py:1235: UserWarning: FixedFormatter should only be used together with FixedLocator
  ax.set_xticklabels(xticklabels)
```

Out[16]: <AxesSubplot:>



```
In [23]: df3['senti'] = senti
```

```
In [17]: #grouping the sentiments by categorical groups

sentiment=senti.groupby('senti')
```

```
In [18]: #getting the Lengths of the groups
print('The nuetral tweets are : ',len(sentiment.get_group('Neutral')))

print('The positive tweets are : ',len(sentiment.get_group('Positive')))

print('The negative tweets are : ',len(sentiment.get_group('Negative')))
```

```
The nuetral tweets are : 76
The positive tweets are : 26
The negative tweets are : 4
```

```
In [19]: if len(sentiment.get_group('Negative')) > len(sentiment.get_group('Neutral')) ar
else:
    print("person is good")
```

```
person is good
```