

## Suyash Pratap Singh(181B226)

### Import the Package Tweepy from twitter API

```
In [1]: import tweepy
from tweepy import OAuthHandler
import pandas as pd
import matplotlib.pyplot as plt
import nltk
import numpy as np
```

### Enter Your Key Codes Provided by Twitter

```
In [2]: consumer_key = 'SOZ0M5WM2HkJk1dVxaDciZMQ'
consumer_secret = 'Vy9VYfpKXFqgJlNrXxqW9bLSVB5ZVntpjCOByqJmed4VoBGw6X'
access_token = '283418461-16nuPhoVOG046YyVbGqKWX20f8krIQx5FXSMAUKj'
access_secret = 'mmdBqmMCPQrNTANSyoMa1d76CqEImVqsvDgvadGPKos06'
```

```
In [3]: auth = OAuthHandler(consumer_key,consumer_secret)
auth.set_access_token(access_token,access_secret)
api=tweepy.API(auth)
```

### Extract the desired number of tweets for any Hashtag

```
In [7]: result=[]
i=0
for tweet in tweepy.Cursor(api.search,q='SSR',lang='en').items():
    if (not tweet.retweeted) and ('RT @' not in tweet.text):
        result.append(tweet)
        id=tweet.id
        i+=1
        if i==50:
            break
print(len(result))
```

50

### Extract the features from Twitter API

Tweet related features : created\_at, retweet\_count, source User related features : user\_description, user\_follower\_count, user\_friends\_count, user\_location, user\_verified, user\_url Extra Feature: Length of tweet

```
In [14]: def process_results(result):
    id_list=[tweet.id for tweet in result]
    data_set=pd.DataFrame(id_list,columns=['id'])
    #tweet related features
    data_set['text']=[tweet.text for tweet in result]
    data_set['users_id'] = [tweet.author.id for tweet in result]
    data_set['user_screen_name']=[tweet.author.screen_name for tweet in result]
]
    data_set['user_name']=[tweet.author.name for tweet in result]
    data_set['created_at']=[tweet.author.created_at for tweet in result]
    data_set['retweet_count']=[tweet.retweet_count for tweet in result]
    data_set['source']=[tweet.source for tweet in result]

    #User related features
    data_set['user_id'] = [tweet.author.id for tweet in result]
    data_set['user_name'] = [tweet.author.followers_count for tweet in result]
    data_set['user_description'] = [tweet.author.description for tweet in result]
]
    data_set['user_follower_count'] = [tweet.author.followers_count for tweet
in result]
    data_set['user_friends_count'] = [tweet.author.friends_count for tweet in
result]
    data_set['user_location'] = [tweet.author.location for tweet in result]
    data_set['user_verified'] = [tweet.author.verified for tweet in result]
    data_set['user_url'] = [tweet.author.url for tweet in result]
    # The Length of Tweet
    data_set['length_of_tweet'] = [len(tweet.text) for tweet in result]

    return data_set
data_set = process_results(result)
```

In [15]: data\_set

Out[15]:

	id	text	users_id	user
0	1306102742050418689	Every SSRIAN is fighting with each other over ...	1292704024043479040	c
1	1306102736052658182	SSR didn't make or receive any calls since 13 ...	1286135075843665921	
2	1306102718503596033	@sumikumopon he's making u suffer alot 🙄 be pr...	1192699412532756480	
3	1306102694151553025	#SSR other star and none in the future will in...	1173491963397586944	
4	1306102674555727872	#NationWantsDishaSSRTruth\nJustice for SSR htt...	1289854158103703552	
5	1306102672420777989	your Indian media shows so much adds for hours...	1294490595403026433	
6	1306102656553947141	@Busybee61648656 @Ssr_Ssr9 @shwetasinghkirt @v...	1171150867174744069	Ru
7	1306102638707052544	We want the truth of both the murders? \n\nWh...	2181664665	
8	1306102631589228545	@Ssr_Ssr9 Adding few @aatish_dkd @_mallika_s...	1273203960317308928	
9	1306102629278257153	@republic one request, is it not possible to s...	3305391409	N
10	1306102624530436097	@NickKumar0 @BhaavnaArora Who made sushant?? S...	1208460391958728704	su
11	1306102617836318720	@nilotpalm3 Sir thousands are with you for HT ...	600441202	
12	1306102609921470464	#Nation_With_ArnabGoswami Arnab Ji has done a ...	1277094156305743874	
13	1306102603651010561	Justice for SSR. U were too good for this worl...	1293209129570275328	DIY
14	1306102578552254464	Buffalo Bell: SSR, Rhea, Kangana, Thackeray, K...	94876321	

	id	text	users_id	user
15	1306102551323062272	@PMOIndia @Swamy39 can't believe SSR isn't the...	1173491963397586944	
16	1306102510050967552	@SrBachchan Oh.. that's y u have been silent o...	1304288447469776896	
17	1306102505621733376	#JayaBachchanShamlessLady\n#JayaBachchan Silen...	953918255386824704	
18	1306102486739058689	Who all raped Disha?\n\nWhy it took more tha...	1186772248226435074	
19	1306102485698846722	@republic KANGANA & RAVI KISHAN THEY WANT ...	1292396501532991488	S
20	1306102484109156353	#JayaBachchan #AmitabhBachchan #ArnabGoswami #...	1272757375133298689	NEE
21	1306102452928876544	@shwetasinghkirt 🙏🙏🙏🙏🙏\nHis dreams live on, hi...	1278050816071307264	
22	1306102450290475014	I just want to quote a Bollywoody dialogue : "...	1278410104228872193	
23	1306102445638955010	@amit_AishGang @IshitaRay11 Aishwarya doesn't ...	1193378622	
24	1306102434528284672	Big Breaking : \nThe alien lives found in venu...	782082750	
25	1306102431646793728	@shwetasinghkirt Definitely Shweta di...we hav...	1291446026797113346	M
26	1306102412558528513	#NationWantsDishaSSRTruth\n\nJustice for SSR h...	1289854158103703552	
27	1306102403519848449	@SortedEagle @shwetasinghkirt @ishkarnBHANDARI...	168401787	
28	1306102402823585793	@ashn_rajpud @ndtv Ashna, don't twist words 😊 n...	101503522	
29	1306102357122412545	@Remember2ndOct I dont know why some are losin...	1289473745120198659	/
30	1306102323869921280	#NationWantsDishaSSRTruth\nJustice for ssr	1278568590275297282	[

	id	text	users_id	user
31	1306102309903106048	@aishugyanu Justice for SSR \n#NationWantsDish...	1278742334373494786	
32	1306102279922044928	@RaiEsmi @sunilburnwal89 @SmitaGarg2 @FarOutAk...	1305181823127887874	
33	1306102257818185729	@aishugyanu Justice for SSR \n#NationWantsDish...	1278742334373494786	
34	1306102248821239808	Speeded uppppp 🐼🐼🐼 \n\n#NationWantsDishaSSRTrut...	1272549958617493505	
35	1306102200121270272	Come on SSRIANS! If they can bring their Soldi...	1295473716495675392	
36	1306102171562373120	@itsKrishnaT Justice for SSR \n#NationWantsDis...	1278742334373494786	
37	1306102146274746369	@FarOutAkhtar @sonamakapoor \nAsk your jaya au...	899387749005787136	
38	1306102109062926339	@rakhisawantt @rakhsawantt... one day urs life...	1306093528360001536	
39	1306102099990593536	@JyotiPa44777940 @GirlForJustice @nilotpalm3 @...	1244245587140079628	R
40	1306102046697824256	@SsrHerefor @fayedsouza You "SSR Warriors" gan...	1303263781955411969	
41	1306102041807290369	@Sakshi_world Justice for SSR \n#NationWantsDi...	1278742334373494786	
42	1306102030931578880	@JayaBachchan do your job what u have been ass...	1292750530981367808	ma
43	1306102028284735488	@Alanda25325135 It's so depressing to see that...	1291747057464557569	U
44	1306102014523310080	@Hotchil01789284 @smitaparikh2 @SrBachchan Why...	1249037746389127168	
45	1306101995430871044	@DokkanAssets Guess who got a single ssr from ...	902088746270466049	
46	1306101989525258240	Seriously! These SSR bots are absolute idiots....	2530975771	
47	1306101981644292096	@Sakshi_world Justice for SSR \n#NationWantsDi...	1278742334373494786	

	id	text	users_id	user
48	1306101981522485253	#NationWantsDishaSSRTruth\nJustice for SSR htt...	1289854158103703552	
49	1306101978708107265	@KanganaTeam Jaya Bachchan, Bol bachchan bhari...	1302947286637375489	

## Finally Save the result into a file

In [19]: `data_set.to_csv(r'C:\Users\Admin\Downloads\SSR226.csv', index=False, encoding='utf-8')`

In [22]: `data_set.sample(5)` *#Random Five values display from the dataset*

Out[22]:

	id	text	users_id	user_screen_name	user_nar
46	1306101989525258240	Seriously! These SSR bots are absolute idiots....	2530975771	AwaaraMajnu	4
3	1306102694151553025	#SSR other star and none in the future will in...	1173491963397586944	KPangaluri	
24	1306102434528284672	Big Breaking : \nThe alien lives found in venu...	782082750	pdiatre	1
10	1306102624530436097	@NickKumar0 @BhaavnaArora Who made sushant?? S...	1208460391958728704	subhash46898724	
29	1306102357122412545	@Remember2ndOct I dont know why some are losin...	1289473745120198659	Akeela37117090	

In [ ]: