

```
!ls
```

```
credential.py  __pycache__  sample_data  tweets.xls
```

▼ Get Twitter Credential

- create app, and environment in twitter developer account
- get credentials and save in a file

```
import credential
```

```
!pip3 install oauth2
```

```
Requirement already satisfied: oauth2 in /usr/local/lib/python3.6/dist-packages (1.9.0)
Requirement already satisfied: httplib2 in /usr/local/lib/python3.6/dist-packages (0.12.0)
```

```
import oauth2 as oauth
import json
import re
```

Saving...

```
credential can be stored as config file, or in a database, or in environemt variable
CONSUMER_API_KEY = credential.consumer_key
API_SECRET_KEY = credential.consumer_secret
ACCESS_TOKEN = credential.access_token
ACCESS_TOKEN_SECRET= credential.access_token_secret
```

▼ Authentication

- Twitter supports OAuth 1.0a, Auth 2.0 Bearer Token, Basic authentication
- In this example Auth 2.0 is used. <https://developer.twitter.com/en/docs/basics/authentication>

```
#create Oauth2 Client
consumer = oauth.Consumer(CONSUMER_API_KEY, API_SECRET_KEY)
access_token = oauth.Token(ACCESS_TOKEN, ACCESS_TOKEN_SECRET)
client = oauth.Client(consumer, access_token)
```

- with standared developer license twitter allow only 100 results in response.(Premium subscrip 30 days or from archive) See: pricing: <https://developer.twitter.com/en/pricing>

```
#prepare query
query = '%23atamnirbharbharat'
count = 100
```

```
count = 100
lang = "en"
result_type="mixed"
tweet_mode = "extended"
search_endpoint = "https://api.twitter.com/1.1/search/tweets.json?q={}&result_type={}&c
```

```
#execute query
response, data = client.request(search_endpoint)
```

```
print(data)
```

```
↳ b'{"statuses":[{"created_at":"Mon Jun 08 11:04:17 +0000 2020","id":126994835834227
```

```
#get tweets from result
tweets = json.loads(data)
tweets_list = []
for tweet in tweets['statuses']:
    tweets_list.append(tweet['full_text'])
    print(tweet['full_text'])
```

```
↳
```

Saving...



#AtamNirbharBharat #MakeInIndia

@DrJitendraSingh @poonam_mahajan @BJYM @RavinderBJPJK @BJP4JnK @IARundev @BJYMinJK
Today, every section of the country, every citizen is being provided the facility
Your government should be assured for you, be confident !

#Opportunities4Youth

#atamnirbharbharat <https://t.co/717CQrfX95>

RT @krishnaartsvns: Support our country by #goingvocalforlocal support all local b

#KrishnaArts...

Support our country by #goingvocalforlocal support all local businesses out there!

#KrishnaArts #localbusiness #localforvocal #vocalforlocal #localbusiness

#AtamNirbharBharat #LocalBrand <https://t.co/qpvKoImVyJ>

Today, every section of the country, every citizen is being provided the facility
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#atamnirbharbharat <https://t.co/hv0ke8bHKJ>

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#atamnirbharbharat

via M <https://t.co/HNL9prdm39>

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#atamnirbharbharat

via M <https://t.co/jRj4nfMxDE>

ime Minister of India handled the situation. With th

Saving...



#IndiafightCorona

via MyNt <https://t.co/OJhYlyCxnV>

RT @warrior34811802: There is huge compromise on Make In India , and #AtmanirbharB
@GurukulParents @PMOIndia @DrRPNishank @drdineshbjp @HRDMinistry @Minister_Edu @WH
#Atamnirbharbharat khud padho khud padhao

TEDBF: At \$71 million flyaway costs, TEDBF It will be Cheaper then Rafale M and F-

RT @GK78546407: Swadeshi is the only solution #atamnirbharbharat <https://t.co/MT9q>

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Swadeshi is the only solution #atamnirbharbharat <https://t.co/MT9qXB3rDI>

RT @ImPrince_T: AS PM of India said to build a #Atamnirbharbharat. We are working

RT @theSudhirMohan: AS PM of India said to build a #Atamnirbharbharat. We are work

#atamnirbharbharat

#nochina

Join this slogan maximum to maximum and promote to indian product and make India s

RT @consultosian: Customers duty on bambo import by agarbati manufacturer is incre

#atamnirbharbharat 20 lakh crore package. <https://t.co/zgqc4Z5eZb>

IT professionals crowd the job street <https://t.co/5xmRt73hly> via @economictimes

#JobSeekersWednesday #Jobs #IT_company #informationtechnology #organisations #Rest

Gig coders to become a mainstream phenomenon in Indian IT <https://t.co/H5R2eAAT5R>

#CodersTeach #IndianIT #Mainstream #techelita #Services #gigwork #post_pandemic #t
@TEAMCAIT @praveendel @BCBHARTIA @sumitagarwal_82 @narendramodi @PiyushGoyal @Amit

Saving... ✕

Saving... ✕

```
search_endpoint = "https://api.twitter.com/1.1/search/tweets.json?q={}&result_type={}&c
extended_response, extended_data = client.request(search_endpoint)
#extended list
extended_tweets = json.loads(extended_data)
extended_tweets_list = []
for tweet in extended_tweets['statuses']:
    extended_tweets_list.append(tweet['full_text'])
    print(tweet['full_text'])
```



Saving...



Saving...



```
#undersatnding response:
```

```
print(response)
```

```
➞ {'cache-control': 'no-cache, no-store, must-revalidate, pre-check=0, post-check=0'
```

```
print(data)
```

```
➞ b'{"statuses":[{"created_at":"Mon Jun 08 11:04:17 +0000 2020","id":126994835834227
```

▼ get recent tweets

```
# workaround solution, use premium licnesed apps to get more tweets and apply filters.  
result type="recent"
```

#nochina

Join this slogan maximum to maximum and promote to indian product and make India s
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@TEAMCAIT @praveendel @BCBHARTIA @sumitagarwal_82 @narendramodi @PiyushGoyal @Amit
For all the millennials wondering what people meant by saying " Licence Raj "

Just look around today, you will understand.

#atamnirbharbharat

#COVID19India

#reforms

#IndiaFightsCorona

The patience with which the Prime Minister of India handled the situation. With th
Really Praiseworthy!

#atamnirbharbharat

#IndiafightCorona

via MyNt <https://t.co/7bIhQehDuh>

There is a lot more coming on your way 🚀

We have just started 🚀

Stay tuned for updates

.

.

#AtamNirbharBharat

Saving...

#productandservices

#Electronics

#MadeInIndia

#DigitalLifestyle

#BornIndian

#IndianEntrepreneurs

#IndianMarketer <https://t.co/xrgRYLQNgv>

RT @webexpertrakesh: #RBIsay #NoToPMCBank #YesToYesbank

@RBI #Narendermodi @nsitharaman @FinMinIndia

Thank you for #Atamnirbharbharat. We n...

#atamnirbharbharat by opening arms, ammunition and defence sector to FDI. WOW! <http://t.co/7bIhQehDuh>

RT @VivekrajJayaram: @ahmedabadmirror All that MLA and MP do is make money for the

RT @warrior34811802: There is huge compromise on Make In India , and #AtmanirbharB

India was ruled and enslaved by Britain for 200 years and when one ponders at the

The patience with which the Prime Minister of India handled the situation. With th

Really Praiseworthy!

#atamnirbharbharat

#IndiafightCorona <https://t.co/lM7Ch886E0>

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Thank you for #Atamnirbharbharat. We n...

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@RBI #Narendermodi @nsitharaman @FinMinIndia

Thank you for #Atamnirbharbharat. We...

Saving... ✕

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['In this difficult time, PM @narendramodi still enjoys the overwhelming support o

- remove retweets user names, mentioned user, links, and special characters except punctuation

https://colab.research.google.com/drive/1LBJ0eSGqIRCBBhEimb8xcs41xmbYqLtc#scrollTo=hc_ZOhD6ju1c&printMode=true 11/11