

# CS 677 A1 Data Science with Python

Sentiment Analysis & Stock Price Performance on Tweets

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Files:

1. Folder GetTweets (will use exporter.py)
2. LVMUY.py
3. TIF.py
4. LVMUY.html (Interactive plotly chart)
5. TIF.html (interactive plotly chart)
6. Dataset – #lvmh.csv
7. Dataset – #lvmh2.csv
8. Dataset – #TiffanyAndCo.csv

## Step 1: Data Collection

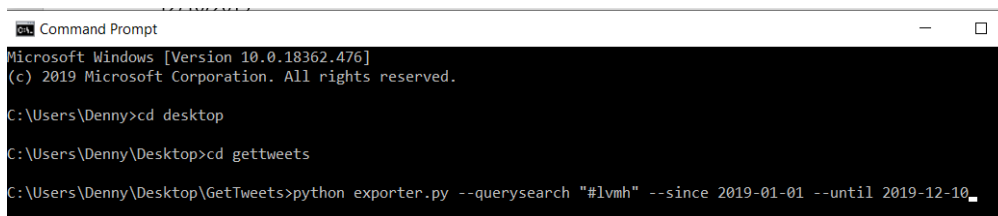
- Required file: GetTweets
- Purpose: We will use this twitter scrapper to download tweets based on keywords or handles (official user account)

Follow the steps below:

- a. Make your current working directory to “getTweets”
- b. Open Command Prompt and type:


***python exporter.py --querysearch “{any keyword}” – since 2019-01-01 –until 2019-12-10***

- c. The scrapper will download the tweets data and create a csv file (I already incorporate the VADER sentiment codes to the scrapper so It will automatically come with the sentiment score).
- d. Output csv file : {keyword}.csv



```
Microsoft Windows [Version 10.0.18362.476]
(c) 2019 Microsoft Corporation. All rights reserved.

C:\Users\Denny>cd desktop
C:\Users\Denny\Desktop>cd gettweets
C:\Users\Denny\Desktop\GetTweets>python exporter.py --querysearch "#lvmh" --since 2019-01-01 --until 2019-12-10
```

 #lvmh.csv

## Step 2: Data Preprocessing & Visualization

- Required file: LVMUY.py
- Purpose: We will import the tweets data we already downloaded and stock data from yahoo finance. Also, we will group the tweets data based on the corresponding date.

Follow the steps below:

- a. Open LVMUY.py and run the code
- b. It will create a Plotly interactive chart (html file) in your working folder.
- c. Output html file: LVMUY.html

Note: you can try some other keywords such as “Apple Inc” and import the stock data by changing the ticker name to “AAPL”.