Chih-Hsien Lin

**DSCI 510** 

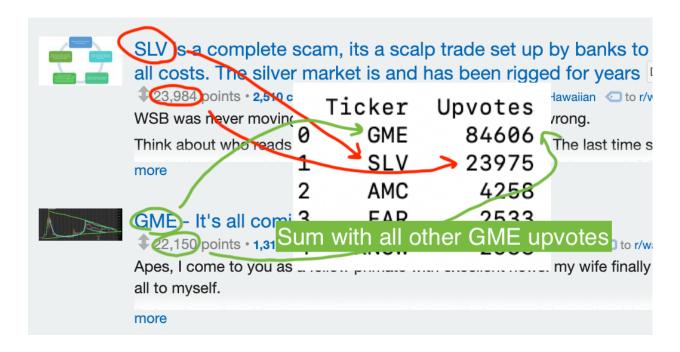
Dr. Yigal Arens

23 April 2021

## Data Sources and Output

Part 1: Reddit scrape

Extract ticker symbols and upvotes from top r/wallstreetbets posts and store into dataframe as shown:



## Part 2: AlphaVantage API

Extract daily close price and volume from AlphaVantage API (request JSON) and store into dataframe as shown:

```
▼ "Meta Data": {
     "1. Information": "Daily Time Series with Splits and Dividend Events",
     "2. Symbol": "GME",
     "3. Last Refreshed": "2021-04-19",
     "4. Output Size": "Compact",
     "5. Time Zone": "US/Eastern"
  },
▼ "Time Series (Daily)": {
     "2021-04-19": -{
         "1. open": "171.8"
         "2. high": "175.2"
         "3. low": "162.33",
         "4. close": ("164.37"
         "5. adjusted close": "164.
         "6. volume": "10520214"
         "7. dividend amount":
                                                  Close Price
                                           Date
                                                                   Volume
         "8. split coefficient":
                                    2021-04-19
                                                        164.37
                                                                 10520214
                                    2021-04-16
                                                      7 154.69
                                                                  5214710
      2021-04-16" {
                                                        156.44
                                    2021-04-15
                                                                  7856780
         "1. open": "156.0",
                                    2021-04-14
                                                        166.53
                                                                 21138138
         "2. high": "160.1969",
                                    2021-04-13
                                                        140 /99
                                                                  6806868
         "3. low": "151.25",
         "4. close": "154.69"
         "5. adjusted close": "154.69",
         "6. volume": "5214710"
         "7. dividend amount": "0.0000",
         "8. split coefficient": "1.0"
```

## Part 3: Yahoo Finance scrape

Extract headlines and headline urls from the news section in a stock ticker's Yahoo Finance page and store into dataframe.

