**Final Project**

**Team Members:**

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**Goal:** Predict (Predictive Analysis) what stock prices will be in 21 days based on whether or not there is a positive, neutral or negative tweet. Ranked by who tweeted (corporate officers vs. individual person).

**Tools:**

* Python/Pandas
* Tableau

**Data to be obtained from:**

* Twitter API
  + Training Data = historical tweets
  + Test Data = current tweets
  + Twitter metrics for how many retweets
* US Economic Data for stock prices (hopefully CSV from AmeriTrade)

**E – Extract:**

* From AmeriTrade
  + Pick approximately (5) Stocks to review
    - Based on Volatility index – we’ll determine the (5) most volatile stocks because they will have the largest impact based on the news of the day.
* From Twitter
  + One-year prior twitter to run Test/Train process and compare to outcomes in the volatility index.

**T – Transform:**

* Load data to CSV

**L – Load:**

* Load data into Tableau (Line or Bar Chart) – from a CSV setup similar to the following table with one stock per tab on the CSV file.

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
|  | Nov. 1 | Nov. 2 | Nov. 3 | ETC…… |  |
| Tested Data (Weighted Multiplier) | 1.123 |  |  |  |  |
| Actual Stock Price | 23.56 |  |  |  |  |
| Predicted Stock Price | 26.45788 |  |  |  |  |

Stocks

* Tesla
  + Company: @Tesla

Company: @TeslaModelSNews

* + CFO: @zachkirkhorn
* Apple - Yes
  + Company: @Apple
  + COO (Executive VP):
  + CEO: @tim\_cook
  + CFO: Luca Maestri
* Netflix - Yes
  + Company: @
  + COO (Executive VP):
  + CEO: @
  + CFO:
* Disney
  + Company: @
  + COO (Executive VP):
  + CEO:
  + CFO:

Set upstream