

Establish a stream of News Articles to ingest by the program

Group articles together for context

Merge article context information with stock price info for a given date

Predict whether or not we should Buy a given Ticker Symbol today.











PROJECT INTRO

You Are Here

EDA

Article Preparation and Vectorization

MODELING

Comparing model to baseline accuracy scores



SELENIUM

Article Collection

CLUSTER & MERGE

Grouping articles and merging with Stock Ticker Info

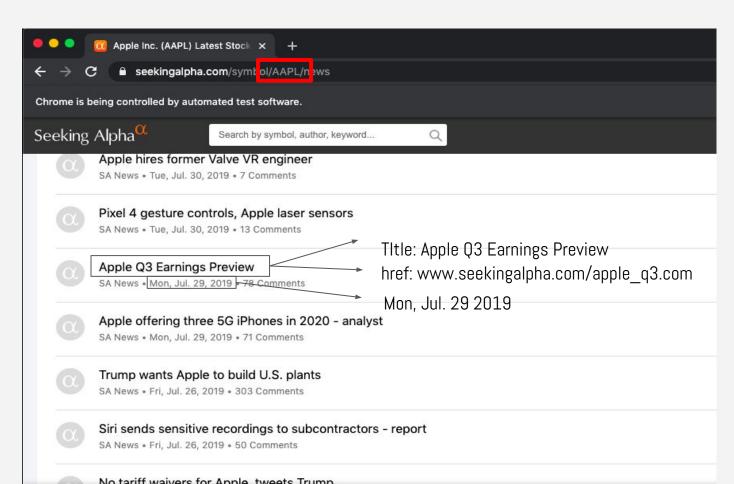
NEXT STEPS

What we can do next to improve the model

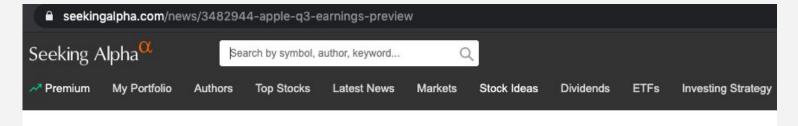


Stock Brokers read all day and watch the news to stay aware of fluctuations in the market.

NLP allows us to teach a computer to read articles for us and pull out relevant information given historical context.



SELENIUM



SELENIUM

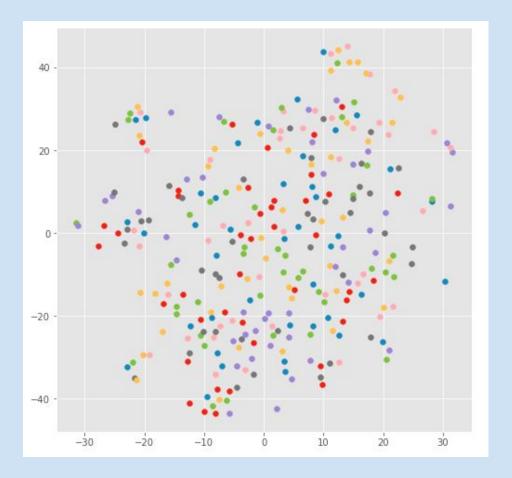
Earnings News | Tech

Apple Q3 Earnings Preview

Jul. 29, 2019 5:35 PM ET | About: Apple Inc. (AAPL) | By: Gaurav Batavia, SA News Editor

- Apple (NASDAQ:AAPL) is scheduled to announce Q3 earnings results on Tuesday, July 30th, after market close.
- The consensus EPS Estimate is \$2.10 (-10.3% Y/Y) and the consensus Revenue Estimate is \$53.39B (+0.2% Y/Y).
- Over the last 2 years, aapl has beaten EPS estimates 100% of the time and has beaten revenue estimates 88% of the time.
- Recent earnings Analysis from our contributors: Apple's Stock May Surge Following Results; Here's How Apple Can Beat Earnings Expectations.

- Word2Vec Google Library
- Article Vectors
- KMEANS Clustering
- get_dummies() by date
- Merge with stock info



CLUSTER & MERGE

RNN - Recurrent Neural Network

Baseline: 52-58% Accuracy Score

TSLA accuracy --> 62%

Modeling

```
Enter your ticker symbol:
MSFT
Gathering Articles
Articles gathered...vectorizing
Vectorized...seting datetime index
Datetime Ready...Clustering...
Getting Ticker Info
Modeling Predictions
'Today we are predicting you should BUY MSFT stock'
```

Doc2Vec

Looks at full article
Would need to build Quorum

NEXT STEPS

ADDITIONAL TRAINING

Look at more companies beyond Tesla Show model more good and bad days

ARTICLE ACCESS

Removes need for Selenium Faster Outputs

