

Sentiment & Securities Analysis

Project Overview and Requirements

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Project Description

- Do Tweets about a company correlate to its stock price??
- Crawl tweets from business news sources
- Track stock prices of major companies
- Use Natural Language Processing:
 - Named Entity Recognition (Companies)
 - Sentiment Analysis
- Could you make money trading with this strategy?

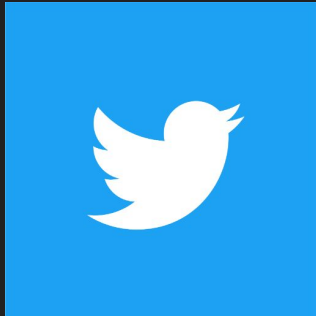
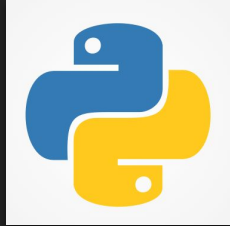
Requirements & Goals

- Database of stock prices for at least 10 major companies
- Record of Tweets mentioning these companies
- Graphs of sentiment vs. stock price

Stretch Goal

- Real-time program to record “purchase decisions” and determine profitability

Tools



IEX Cloud

- Tool for building financial applications
- API endpoints for market data
- 500,000 messages / month free

<https://iexcloud.io/>

Schedule

September

- Project design
- Database design and creation

October

- Recording stock price data
- Natural language processing with Tweets

November

- Testing
- Graphs and analysis
- *Stretch - program to make “purchase decisions” and determine profit / loss*

Questions