**Project Proposal**

**Project Idea:**

We will perform sentiment analysis on financial news for specific stock tickers and correlate the data with the rise and fall of that stock.

**Topics Explored:**

We will explore creating a sentiment analyzer targeted to financial news as well as various methods of data visualization. We will generate figures presenting our data and findings.

**Product:**

Our minimum viable product will be a program that graphs stock prices and the sentiment related to the stock. Our stretch goal will be to create a program that will correlate sentiment related to a stock and changes in price. If we have more time, we will also attempt to build a sentiment analyzer for twitter that will gauge current “mood” and correlate “mood” to the overall rise and fall of the NASDAQ/Dow/S&P.

**Libraries Used:**

We are planning on using 3 libraries: Bokeh (data visualization), ystockquote (module for retrieving stock quote data), and pattern (web scraping).

**Mid-Project Checkin:**

By mid-project checkin, we will have looked into data presentation methods and have done a first take at sentiment analysis. We will have also started to pull stock data.

**Risks:**

Our biggest risks are being able to create an accurate sentiment analyzer and finding an intuitive way to present our findings.