

Similar projects have been done by other people, involving analysis of stock price history to develop future predictions of stock prices. Those projects have tended to involve rudimentary analysis of past historical data to serve as a predictor of future trends. Other applications have been developed that provide the sentiment expressed about company's.

In my case, however, I will be using different trend models to develop a recommendation. In particular, while most of the projects I found online abstractly used large amounts of price history data to base their predictions off of, I will be refining my data to only include the data I believe is most relevant to determining the value of a company. As such, I am only making use of pricing data from the times when the company in question released earnings data. At these times, stocks tend to have reality checks in terms of their prices compared to the revenue they bring in, and thus would likely serve as a better dataset to analyse.

Additionally, I will be combining this analysis with that of sentiment analysis, by considering the trend of sentiments expressed about the company in question, and how it changes relative to the stock price. By considering this aspect, the tool will give the user an idea of public opinion surrounding the company and how it affects the company's stock price. As such, when comparing these two aspects, the user will learn about both the fundamental value of the company as well as the opinion surrounding it. Hence, this tool should be more complete in terms of the information it provides.

Time permitting, I would also like to implement a feature that I found among the competition. Specifically, I would like to develop a neural net to provide buy sell recommendations. In the code of competitors, this has involved using the somewhat rudimentary trend to supply a prediction, however in my case it will involve both using price history and sentiment expressed about the stocks. I will attempt to determine the best weighting system between the recommendations determined by the trends from history and sentiment, such that the combination has higher accuracy than either trend on its own.