**Capstone 2 proposal draft**

For decades, stock market prediction has been one of the most challenging tasks that financial analysts eager to achieve. For those who are data science learner, before dive into complicated algorism for predicting the stock market, some simple timeseries data analysis and prediction would be helpful and meaningful to start.

For this capstone project, daily trading information for Apple company stock during a 5-year period (from 2015 to 2019) was downloaded from Yahoo Finance website. For instance, Weekly stock price change will be used as the actual data points to explore the insight of the stock price trends. Specifically, the first 4 year’s data will be used as the training data set to build the model and the last year’s data will be used as the testing data set to test the generalization of the model built. Then, one timeseries prediction model based on the downloaded data will be built, and it could be used to predict future weekly stock price for the selected company (Apple). Multiple stock prediction is not the goal of this analysis; however, it could be the potential direction for future more complicated analysis.