## Capstone Three - Project Proposal

The stock market is an aggregation of buyers and sellers of stocks. On normal business days, high volumes of stocks are bought and sold by various individuals / companies. Trying to predict where a stock's value might be heading based on various features is a tricky endeavor and a big financial risk for those who are involved.

The goal of this project is to create a stock market prediction model using advanced machine learning techniques. We can do this by taking multiple company's stock prices from various industries. For best price evaluation, we will use the closing price of each stock everyday as a better representation for the stock's evaluation and what current events might have taken place that day.

To gather the data, we will use Yahoo's Python API in order to gather the data from a certain date range rather than download a database. After first looking at small trends between different industries, models will be formed using machine learning in order to try and best predict each stock and then see which industry has the better overall stock projections.