**Stock Market Prediction using DJIA and Daily News Data**

The most uncanny prediction topic one can always come across is the stock market. If the prediction goes right, the beneficiaries avail great wealthy outcomes, but if a monetary trade is made at wrong times, it can lead to drastic loss. Thus, predicting the stock price has been my motivation as this capstone project.

Data to be used in this project are :

1. Top 25 news headlines from Reddit WorldNews Channel is being used to analyze how news headlines can play a part in predicting stock market

2.Historical Stock data is being sourced from Dow Jones Industrial Average(DJIA). It is a stock market index that measures the stock performance of 30 large companies listed on stock exchanges in the United States.

Goal for this project :

1. The idea of this project is to develop a model which can beat the market blues and allow one to make statistically informed trades.

2. Predict stock prices and carrying out an investing research which helps a company understand its stock value and prepare well for monetary exchange between parties.

3. I plan on executing regression, various classifier techniques, natural language processing and perform a time series analysis. I will also execute artificial neural networks(ANNs), genetic algorithms(GAs) and time delay neural network(TDNN).

Referenced Links :

1.Reddit World News, <https://www.reddit.com/r/worldnews/?hl=>

2. Yahoo Finance, [https://finance.yahoo.com/quote/%5EDJI/history?p=%5EDJI](https://finance.yahoo.com/quote/%5eDJI/history?p=%5eDJI)

3. Aaron7sun, a kaggle user, who decided to merge these datasets and assign it to his class for further analysis. Link : <https://www.kaggle.com/aaron7sun>