**Assessment 1**

**STOCK MARKET PREDICTION**

# Problem statement

Stock market prediction is one of the important exertions in business and finance. Stock market prediction determines the company’s future by taking the historical data into consideration, make predictions of the crashes that’s going to occur and minimize the investor’s losses. By observing the past data, we predict the rise and fall of the stocks and help the investors to know where to invest. It majorly includes the company performance in the recent years based on factors such as political consequences and climate changes. Toronto stock exchange is one of the major stock exchanges in the world and deals with many company equities, major oil and gas company equities. It has a valued market capital of 3.5 trillion. We collect the historical data of the Toronto stock exchange owned by the TMX group. We apply machine learning models and predicts the future equities prices.we predict the movement of stock market using the machine learning algorithms such as support vector machine algorithm and neural network to predict the crashes in the stock market

## Outcomes assessed:

The main goal of our project is to study the data and apply different machine learning models on our data to get the outcome. The outcomes will be useful to the investors for the future investment . There are a number of further directions can be investigated starting from this project. The first one is to explore other creative and effective methods that might yield even better performance on stock market forecasting.by using this machine learning model we can maximize the profits and minimize the loses. This gives the idea to future investers to invest in which equities.