**Group Members:** Nadeem Hemani, Michael Joseph, Nabeeha Ashfaq, Safwan Alam

**Due Date:** 7 March 2021

The followings must be included in the proposal:

**1. Problem definition**  
To predict the price of cryptocurrency(bitcoin) or a stock by using machine learning algorithms on the datasets which contain historical prices of the cryptocurrency/stock.

**2. List of the method(s) that you will implement (or compare)**

Support Vector Regression(SVM) and Artificial Neural Networks (ANN) are the two commonly used machine learning algorithms which can be used for learning from the provided dataset and make future predictions

**3. Brief description of the data (e.g., # of samples and features)**

The below website allows exporting historical prices for stocks and cryptocurrencies to be exported as a CSV file which can be used as dataset for machine learning algorithm.

coindesk.com/price/bitcoin or coindesk.com/price/[insert Stock/Cryptocurrency symbol here]

**4. Description of Data settings or preprocessing (if need)**

The data set will be divided into a training subset and a testing subset for the model

**5. Experiment Design**

A data visualization model in the form of a continuous graph showing the predicted price of bitcoin compared to the actual price of bitcoin