**PROBLEM STATEMENT**

**Title :** Visualising and forecasting of stocks

**Project stakeholders :** group members (B.Tech AI & Data science)

1. Shaik Teeb Hussain
2. Samanthu Abhay Reddy
3. Pothireddy Venumadhavi
4. Srinidhi Tarigoppula
5. Shaik Mohammed Noor

**Project functionalities :**

* **CONTEXT**

Stock investments provide one of the highest returns in the market. Even though they are volatile in nature, one can visualize share prices and other statistical factors which helps the keen investors carefully decide on which company they want to spend their earnings on.

* **OBJECTIVE**

A single-page web application using a python framework and some machine learning models which will show company information and stock plots based on the stock code given by the user. Also the ML model will enable the user to get predicted stock prices for the data input by the user.

* **Unique Selling Point**

Exchanging the stocks on money markets is one of the significant speculation exercises. Already, scientists developed different stock examination system that could empower them to envision the bearings of stock esteem development. Predicting and forecasting of significant worth future cost, in perspective of the present cash related information and news, is of colossal use to the financial pros. Financial masters need to know whether some stock will get higher or lower over particular time-period. To obtain the accurate output, the approach used is to implemented is machine learning along with supervised learning algorithms. Results are tested using different types of supervised learning algorithms with a different set of a features.

**Software requirements :**

Developing this simple project idea using the Dash library(of Python), we can make dynamic plots of the financial data of a specific company by using the tabular data provided by finance python library. On top of it we can use a machine learning algorithm to predict the upcoming stock prices.

**Result :**

In Stock Market Prediction, the aim is to predict the future value of the financial stocks of a company. The recent trend in stock market prediction technologies is the use of machine learning which makes predictions based on the values of current stock market indices by training on their previous values. Machine learning itself employs different models to make prediction easier and authentic.