Stock Price Prediction Using Machine Learning

- Stock price prediction is a challenging task, as there are many factors that can affect the price of a stock. However, machine learning can be used to learn from historical data and predict future stock prices.

- There are a number of different machine learning algorithms that can be used for stock price prediction. Some of the most popular algorithms include support vector machines, artificial neural networks, and random forests.

- The accuracy of stock price prediction models can vary depending on the algorithm used, the quality of the data, and the market conditions. However, some models have been shown to be able to predict stock prices with a high degree of accuracy.

- Stock price prediction models can be used by investors to make informed decisions about when to buy or sell stocks. However, it is important to note that no model is perfect, and there is always the risk of losing money when investing in stocks.
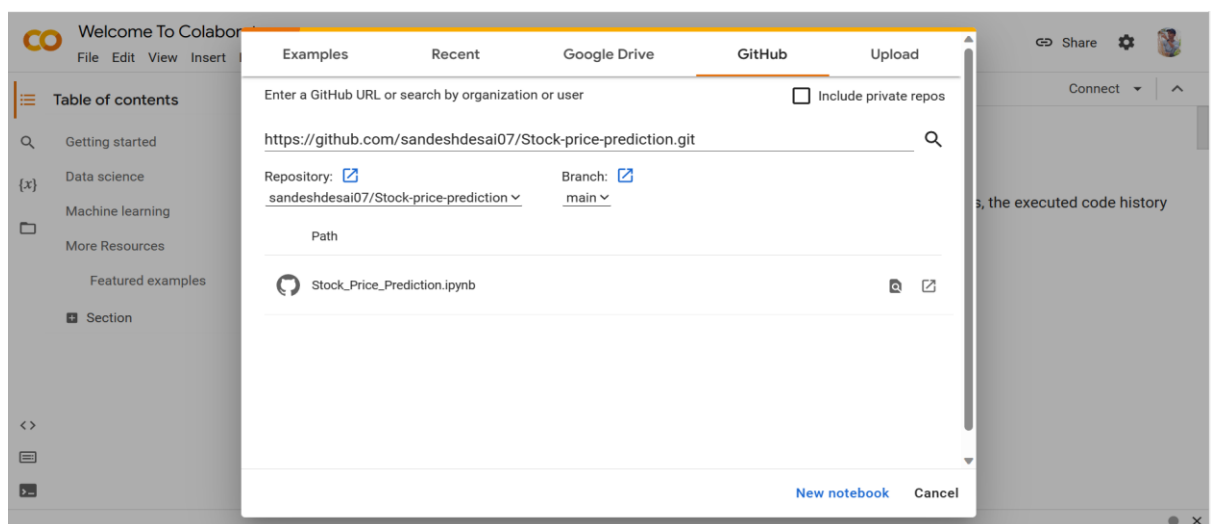
Getting Started

Either start direct by this link (https://colab.research.google.com/drive/1kgqz8Xs6RW6K9JkrWkvu_MzYze0CHaSk?usp=sharing) or follows next instructions

1) Open google colab
2) → File
3) → Upload Notebook
4) → Select GitHub
5) → Paste link (https://github.com/sandeshdesai07/Stock-price-prediction.git)

6) → Select repository (**sandeshdesai07/Stock-price-prediction**)
7) **For small dataset used 1st model and large dataset used 2nd model**
8) Procedure will be same for both model now lets discuss about 1st model (Small dataset)
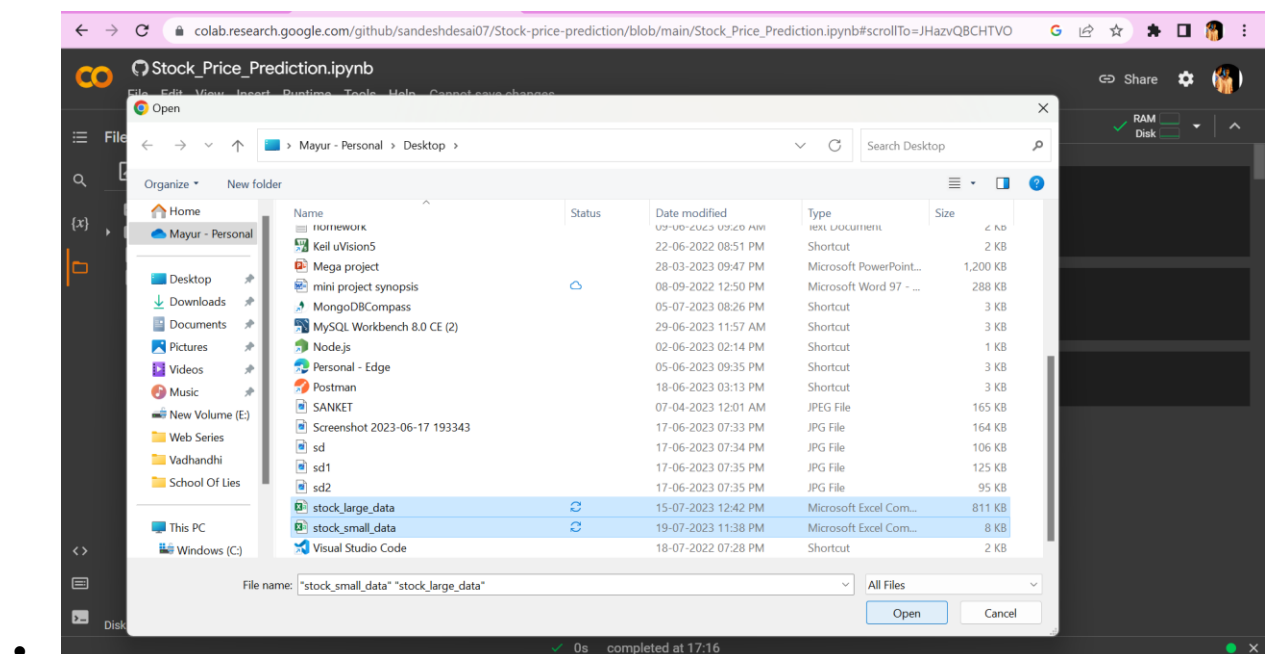9) Goto table of content → upload dataset files (which already provided with source code file)

10) Write down name of file (`data=pd.read_csv('stock_small_data.csv')`) and (`data=pd.read_csv('stock_large_data.csv')`).
11) Then execute file till end of first model.
12) At the end you will get accuracy & graph of prediction.
13) Similarly, execute the 2nd model with same process.
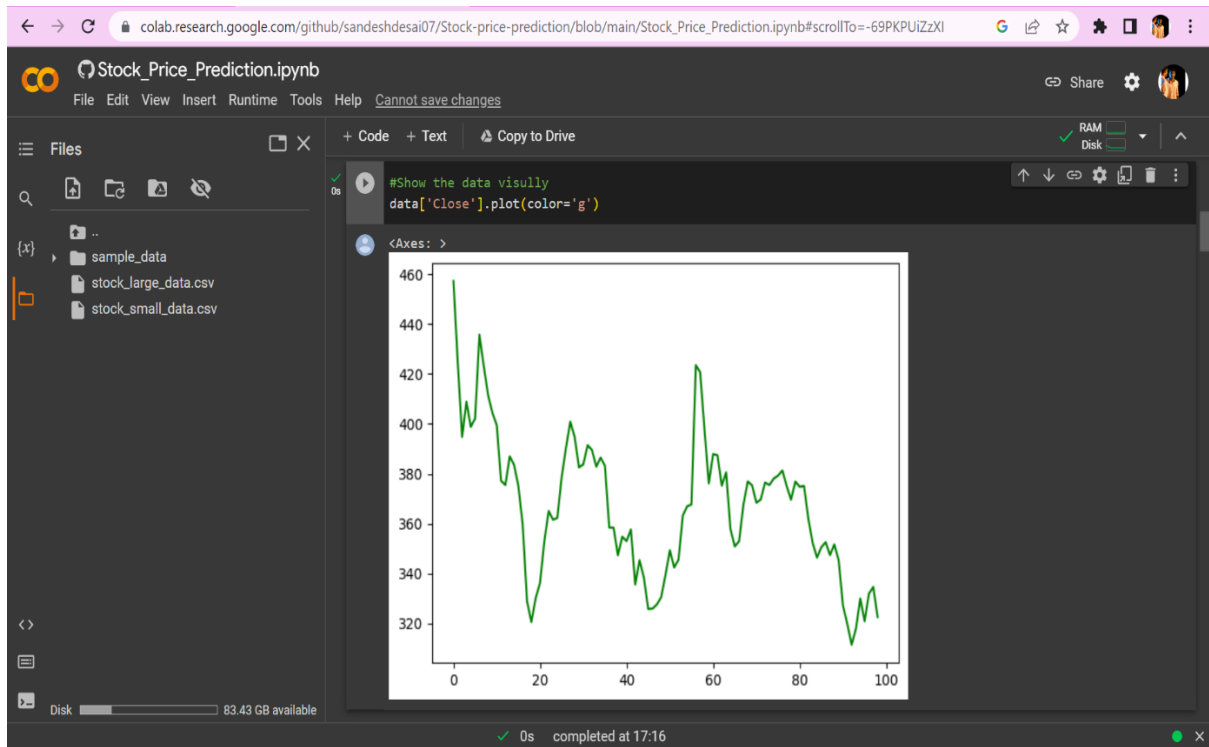
##Model divided into to types:

- Model for 100 days data prediction.
- Model for larger data set about more than 100 days.

Open google colab → then upload choose according to data set if prediction required about 100 days then go for 1st model or larger data set go for 2nd model.
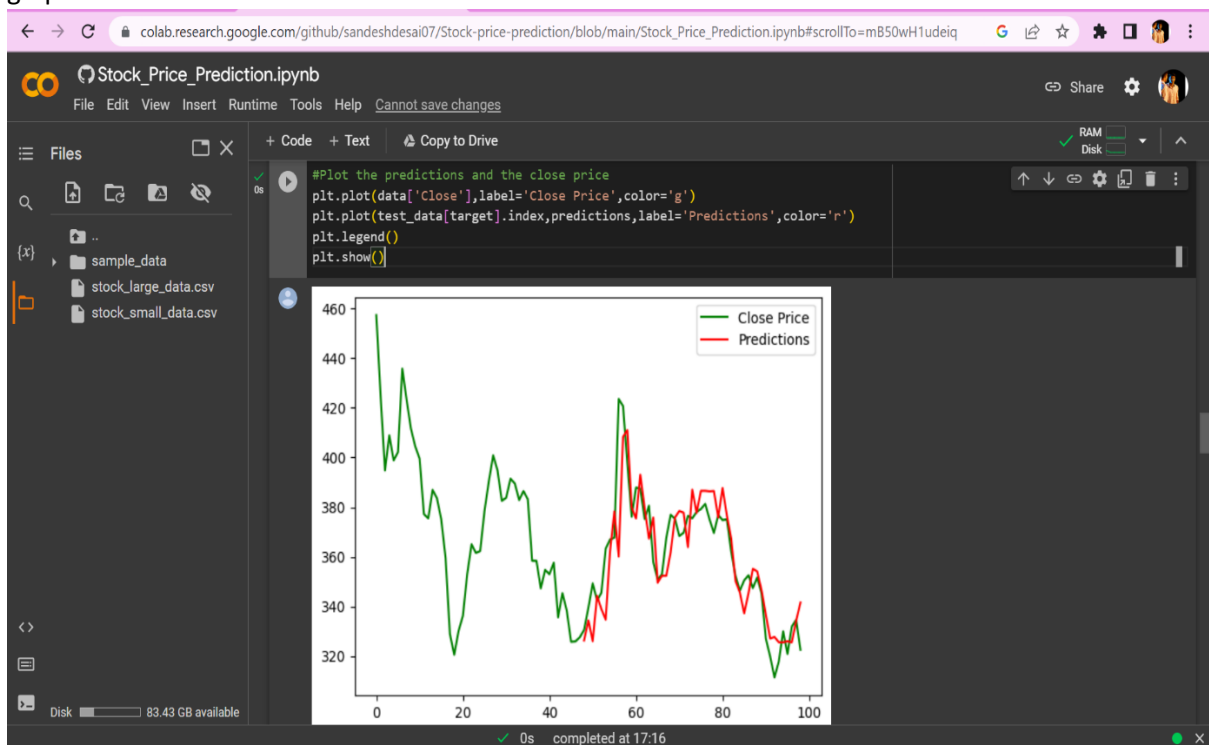
Give path from computer folder (file must be in.csv).
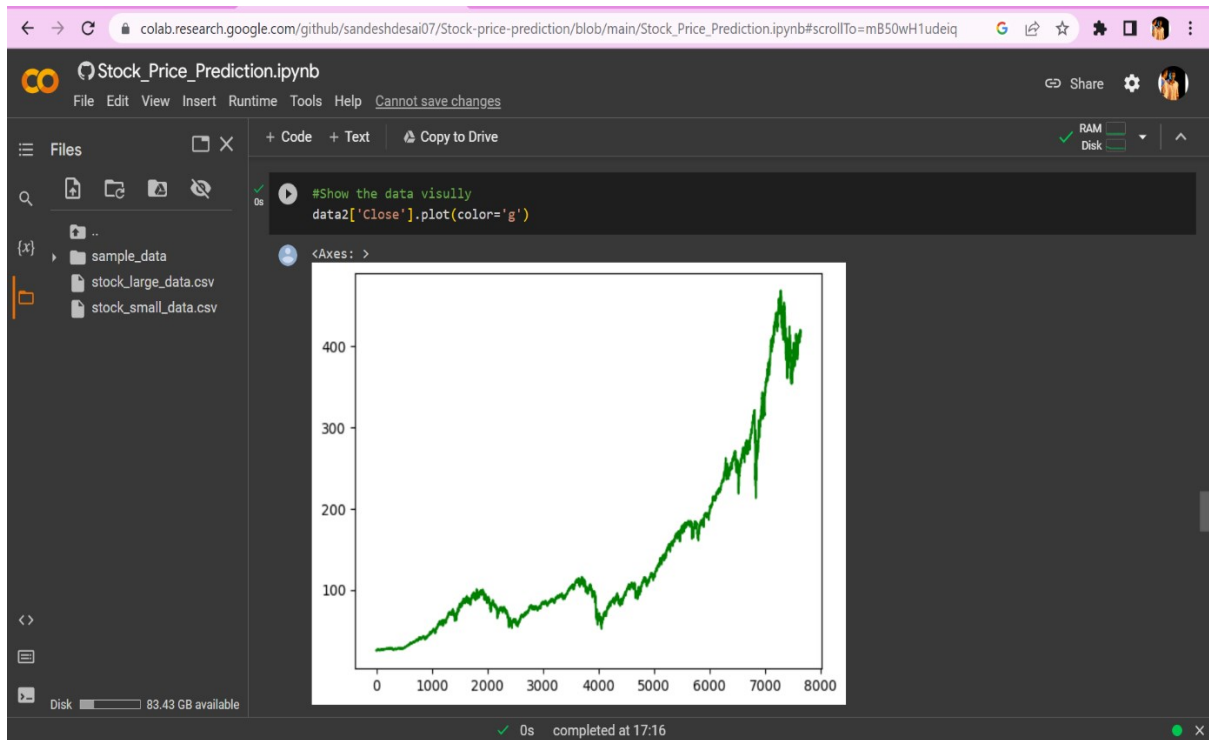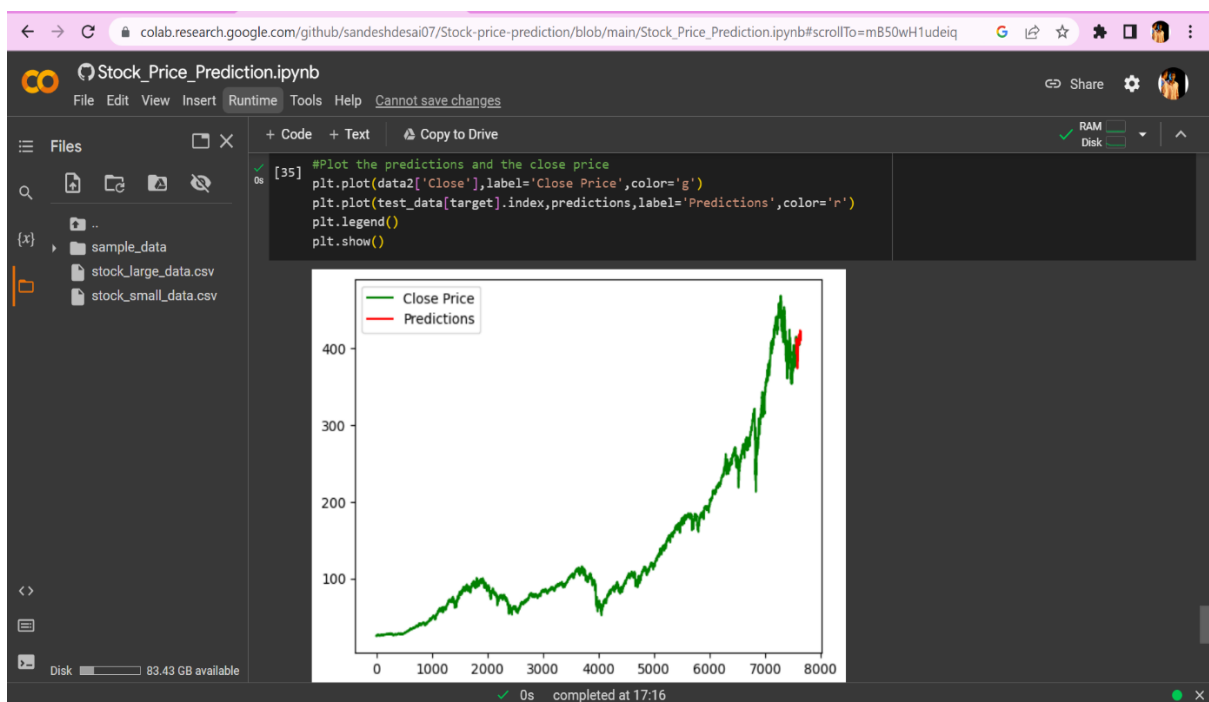
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Diagrams

- The above snapshot shows the data visually before model predict the stock prices in the form of graph.

- The above snapshot shows the data visually after prediction in the form of graph.

- The above snapshot shows the data before prediction.

- The above snapshot shows prediction from dataset.