Stock Price Prediction Artificial Intelligence

Project Report 2021

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Introduction to the problem (you choose)

Introduction:

In this project we are creating Stock Price Prediction. The stock market is an interesting medium to earn and invest money. There is no proper prediction model for stock prices but investors will get significant idea about the stock price. The price movement is highly influenced by the demand and supply ratio.
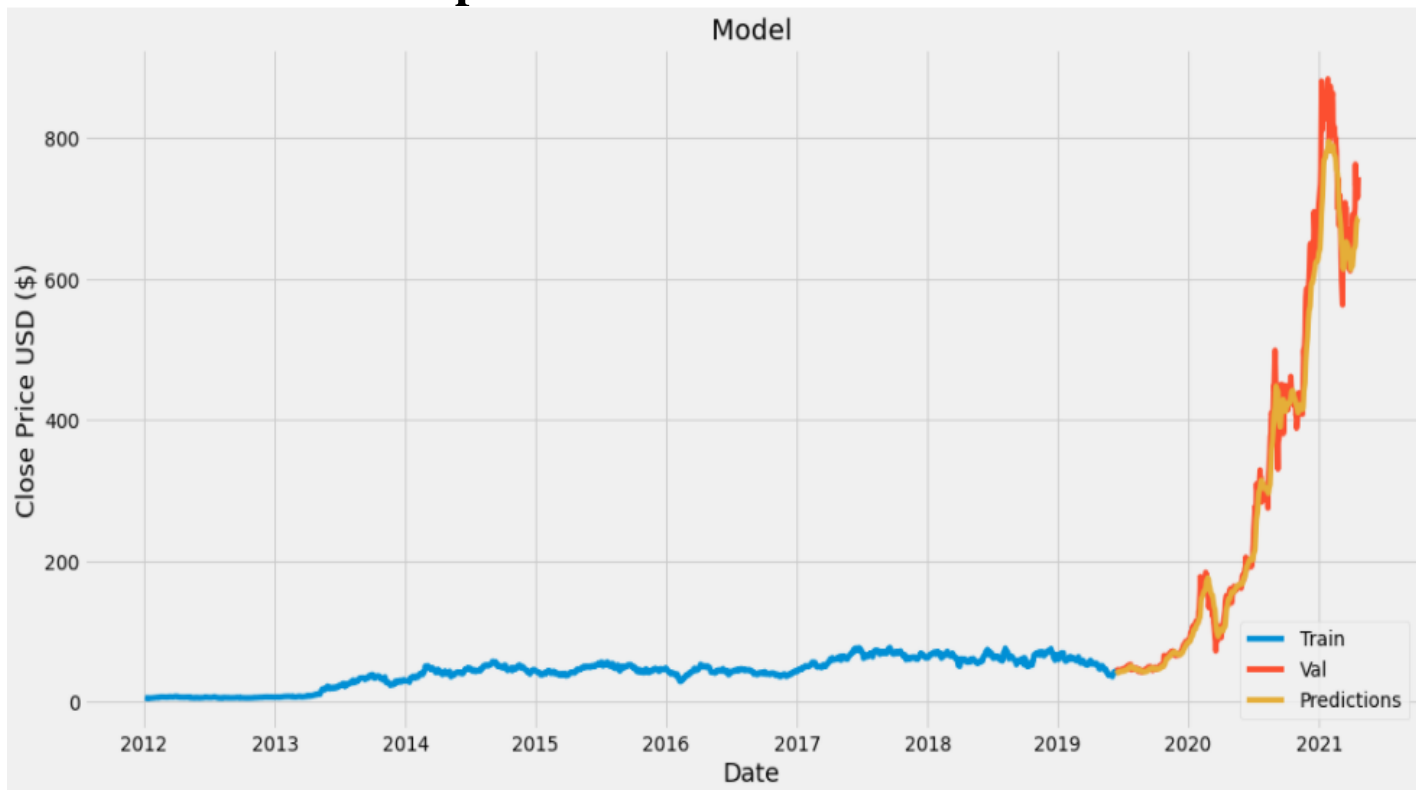
Description:

We are building Stock Price Prediction which can tell the investors about prediction of stock's price. Machine learning has significant applications in the stock price prediction. In this machine learning project, we have implement about predicting the returns on stock which is Tesla. The model which we have used to predict the Tesla stock is LSTM(Long Short Term Memory) Model.

LSTM Definition:

Long Short Term Memory networks – usually just called "LSTMs" – are a special kind of RNN, capable of learning long-term dependencies. They were introduced by Hochreiter & Schmidhuber (1997), and were refined and popularized by many people in following work. They work tremendously well on a large variety of problems, and are now widely used.

LSTMs are explicitly designed to avoid the long-term dependency problem. Remembering information for long periods of time is practically their default behavior, not something they struggle to learn!

Tesla Prediction Output:

Github Picture:

GitHub Profile Link:

https://github.com/MuhammadAdnanKhalid
https://github.com/zareenshahid

GitHub Project Link:

https://github.com/MuhammadAdnanKhalid/AI-Stock-Price-Prediction-Project

Software Requirements:

- Version Control Git and GitHub
- Jupyter Notebook