

Stock Price Prediction

Name: A.P. Aishwarya Lakshmi

Reg No: RA2011026020066

Dept: CSE- AIML B

Subject: Software Engineering & Project Management

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Project: Stock Price Prediction

Domain: Machine Learning

Programming Language: Python

Tools & Libraries: Plotly Dash, LSTM

Team Members:

- A.P. Aishwarya Lakshmi
- Grace Hephzibah M
- Amruthaa S

Stock Price Prediction using Neural Network

We will be talking about predicting the returns on stocks. We will develop this project into two parts:

1. First, we will predict stock prices using the LSTM neural network.
2. Then we will build a dashboard using Plotly dash for stock analysis.

Aim:

To develop an innovative artificial recurrent neural network approach for better stock market forecasts.

Purpose:

- Using this model, anyone can monitor the preferred stock that they want to invest in; and maximize profit by purchasing volume at the lowest price and liquidating the stock when it's at its highest.
- Minimize the loss by selling the stock just at the right time, so users wouldn't have to face loss over their investments.

Objectives:

- Processes real-time data thereby allowing the model to be accurate and learn with live input.
- Provides valuable feedback on the shares of the company and predict its rise and fall concerning the previous situations

Challenge:

- Capturing the regularity of stock market changes has always been a key point for investors and investment firms. To make a successful investment, many investors want to know the future of the stock market.
- Our project would help investors, analysts, or anyone interested in investing in the stock market to get a better understanding of the future state of the stock market