

Machine Learning Project

Title: Stock Market Prediction using Machine Learning, using LSTM and Deep Learning

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Topic: Stock Market Prediction

Objective:

To analyse past years data, train and test our model and predict the future days stock prices. As most of the students and even working professionals do not have proper knowledge of stock market and they don't know the technical and fundamental analysis like when and which stock to buy, So this model can provide them clear cut decision that when are the prices of stocks can rise and fall so that they can invest their money and earn profits. So, this model can become an easiest way of earning through stock market.

- Idea:**
1. Collect the stock market data
 2. Pre-process the data, Train and Test
 3. Create a model using LSTM(Long Short Term Memory) and Neural Networks(Deep Learning)
 4. Predicting Test Data and plot the output
 5. Predict the future days stock prices and plot the output.
 6. Analyse the efficiency of the model.
 7. [Optional] This Model can further improve if we also analyse social events like – pandemic, Death of a Big Founder/CEO, country Relations, Resignations of CEOs/presidents, etc . As these things affect stock prices.

Software and Libraries required:

Python 3.7 , NumPy, Pandas, Keras, Tensor-flow, Jupyter Notebook