

Problem Statement :Stock Market Price
Prediction for the next 10 days using
Machine Learning.

Problem Statement Number: PS05

Team Name : #include

Team Leader Name :Yash Chavan

College Name: MMCOE

A HackSprint v2.0 project presented by #include





Project Details

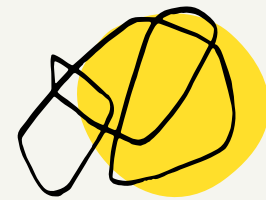
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Part 01



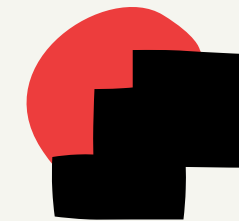


The Problem



What we want to solve

Stock Market Price Prediction for the next 10 days using Machine Learning.



Hypothesis

Test different Machine learning Models to find the best approach and deploy a web app



Approach

- We chose the stock of HDFCBANK analysed it and later we added other stocks too.
- We started by trying different Models like RNN,CNN,LSTM,SVR,LSTM The best i.e LSTM was chosen .
- We Tried to minimize the loss and get as much close results we can get.
- Simultaneously we built UI and also we were working on the backend so that we can deploy the model and make it available to the users





Objectives

What we want to achieve

Forecasting the Prices of Seven Stocks For Next 10 days

- HDFC Bank Limited(HDFCBANK.NS)
- Nifty 50(^NSEI)
- S&P
- BSE SENSEX(^BSESN)
- Hindustan Unilever Limited (HINDUNILR.NS)
- Reliance Industries Limited (RELIANCE.NS)
- Infosys Limited(INFY.NS)Tata Consultancy Services Limited (TCS.NS)





Day 2 additions

- Our Mentors told us that we should try out different Models.
- We accordingly tried out and chose the best out of it.
- They told us the loss can be minimized more.
- We were successful to implement that too.

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Day 3 additions

As it was online platform it was difficult to discuss but still we tried our best

We went through everything tried different solutions individually and then discussed and chose the best out of it

we didn't limit ourselves to the problem statement we built a UI too.

We implemented all the changes suggested by the mentors .





Results

Part 03

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We found that the LSTM model is best suitable for stock prediction

