

Applied data science group

Project phase 1

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INTRODUCTION

A market where shares are publicly issued and traded is known as a share market.

Implementing the concept of algorithmic trading, which uses automated, pre-programmed trading strategies to predict stock prices.

Time series forecasting (predicting future values based on historical values) applies well to stock forecasting.

Developed a User Interface



FUTURE WORK

- Machine learning and Data science is a game changer in this domain so there is a lot of data to find patterns in for predicting with high degree of accuracy.
- In future we'll try to predict the values based on multiple factors such as politics, global economic conditions, unexpected events like covid, companies financial performance, and so on.
- We are going to implement multiple types of algorithms because different types of data requires different types of techniques.
- Decided to implement a simple User Interface to operate this whole process for users so to make people engage in Stock market.



STEPS PERFORMED

- Importing and Cleaning data
- Split the Data into training / test sets
- Creating and Training the Model
- Making Predictions
- Evaluating and Improving Predictions

Need of

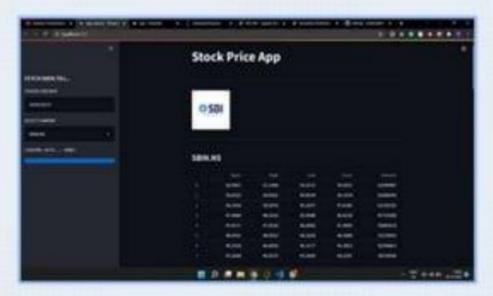
Project

- The stock market is known for being volatile, dynamic,
 & nonlinear
- Accurate stock price prediction is extremely challenging because of multiple factors.
- But, all of this also means that there's a lot of data to find patterns in.
- So, we keep exploring analytics techniques to detect stock market trends.
- So, they can be analyzed as a sequence of discrete-time data
- Despite the volatility, stock prices aren't just randomly generated numbers.

METHODOLOGY









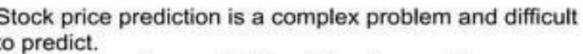




CONCLUSION

Linear Regression

Model does not fit properly



Machine learning model doesn't perform well as compared to Deep Learning model.

Recurrent Neural Network + LSTM

Model fits properly



