

SANTHOSH.M

Final Project



PROJECT TITLE

STOCK PREDICTION USING RANDOM FOREST ALGORITHM

AGENDA

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PROBLEM STATEMENT

- The objective of this project is to develop a predictive model using the Random Forest algorithm to forecast stock prices accurately.
- The model will utilize historical stock price data along with other relevant features to predict future price movements.
- The goal is to build a robust and reliable prediction system that can assist stakeholders in making informed decisions regarding stock investments.



PROJECT OVERVIEW

- ➤ This project aims to develop a model to predict the stock price using the algorithm called as Random Forest Algorithm.
- > The stock price is predicted using the prices of the past dataset.
- > The output displays the actual and the predicted value of the stock.



WHO ARE THE END USERS?

- > Traders
- > Investors
- **➤** Financial Analysts
- > Financial Software Developers
- **➤** Quantitative Analysts

3/21/2024 Annual Review

SOLUTION AND ITS VALUE PROPOSITION



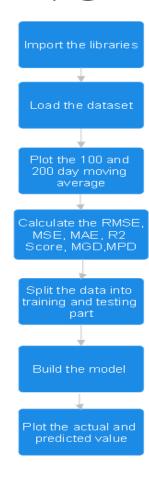
- Developing a stock prediction solution using the Random Forest algorithm involves collecting historical stock price data and relevant features, preprocessing the data, and engineering new features if necessary.
- Then, a Random Forest regression model is designed and trained, with hyper parameters optimized through techniques like cross-validation.
- The trained model is evaluated using testing data, assessing its performance with metrics such as MAE, MSE, and RMSE.
- Once validated, the model is deployed for real-time prediction or integration into existing systems, with ongoing monitoring and maintenance to ensure accuracy and adaptability to market changes.

THE WOW IN YOUR SOLUTION



- The solution will be more accurate.
- The model is more adaptable for any kind of data.
- The model is more efficient for the user.

MODELLING



RESULTS



