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Final Project

PROJECT TITLE

STOCK PREDICTION USING LONG SHORT TERM MEMORY

AGENDA

1.PROBLEM STATEMENT

2.PROJECT OVERVIEW

3.WHO ARE THE END USERS

4.SOLUTION AND ITS VALUE PROPOSITION

5.THE WOW IN THE SOLUTION

6.MODELLING

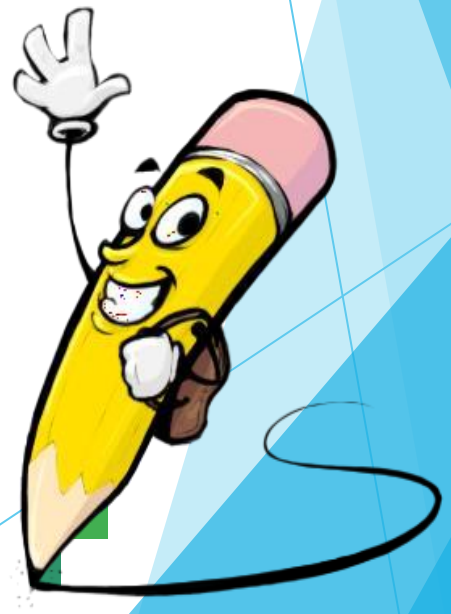
7.RESULT

PROBLEM STATEMENT

- **The objective of this project is to develop a predictive model using LSTM networks 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 investors, traders and financial analysts in making informed decisions regarding buying, selling or holding stocks.**

PROJECT OVERVIEW

- This project aims to develop a model to predict the stock price using the algorithm called as Long Short Term Memory.
- 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**

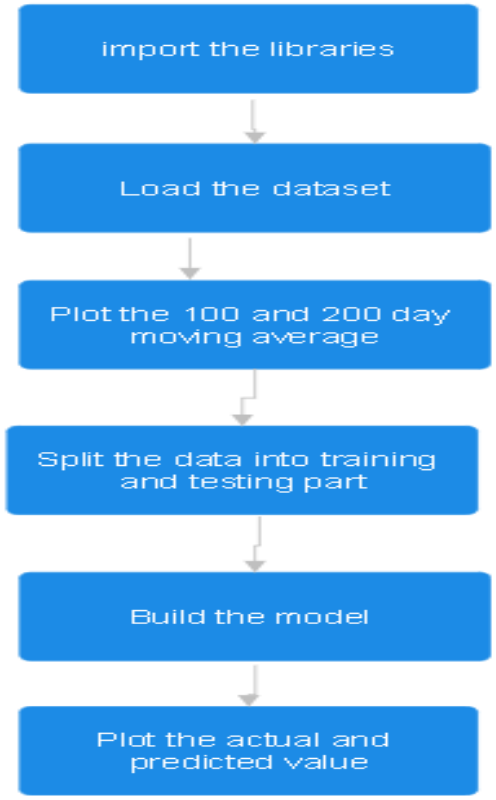
SOLUTION AND ITS VALUE PROPOSITION-

- **Developing a stock prediction solution using Long Short-Term Memory (LSTM) networks involves steps such as collecting historical stock data.**
- **Followed by preprocessing it, designing and training an LSTM model, evaluating its performance, deploying it for prediction, and maintaining its accuracy over time through monitoring and updates.**
- **This process ensures that end-users can make informed investment decisions based on accurate forecasts.**

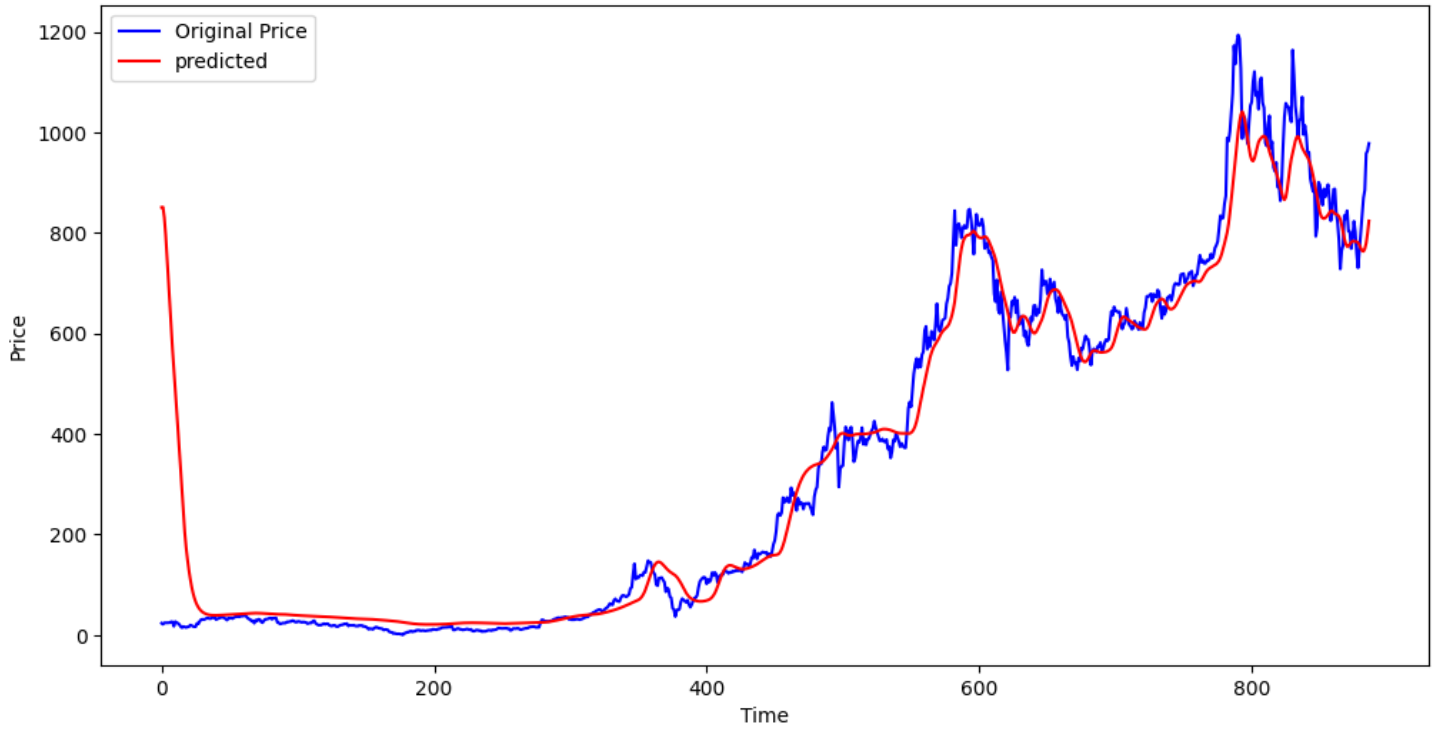
THE WOW IN YOUR SOLUTION

- **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


import the libraries
Load the dataset
Plot the 100 and 200 day moving average
Split the data into training and testing part
Build the model
Plot the actual and predicted value

RESULTS



Demo Link