

**We deliver.**

# StockAI

October 12, 2021

Chief Executive Officer



# Agenda

- Introduction
- Analysis
- Methodology
- Results
- Next Steps



# Introduction

- StockAI is a brand-new startup aiming to deliver results in the Indian stock market.
- We predict future closing prices and deliver a full analysis report of stocks upon order.
- Our target customers are independent and non-independent traders as well as investors looking for the much-needed long term security while investing in stocks.







# Analysis and Methodology

Let's dive in



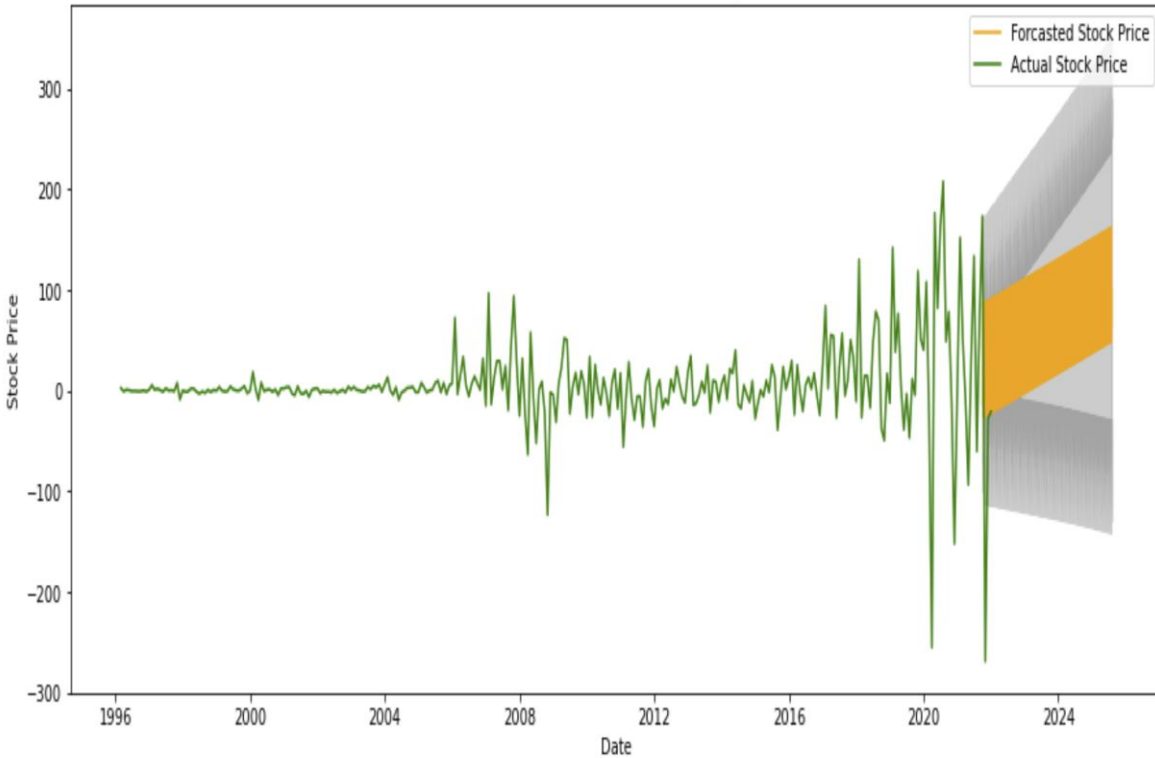
# Closing Price Prediction

- For the purpose of presenting, I have chosen Reliance and HDFC stocks to display Exploratory Data Analysis and modeling.
- For the analysis, the historical data must start from 2010 or below for proper data presentation.
- Followed the procedure of Time Series Analysis to detect trends, seasonality and stationarity to make effective models.

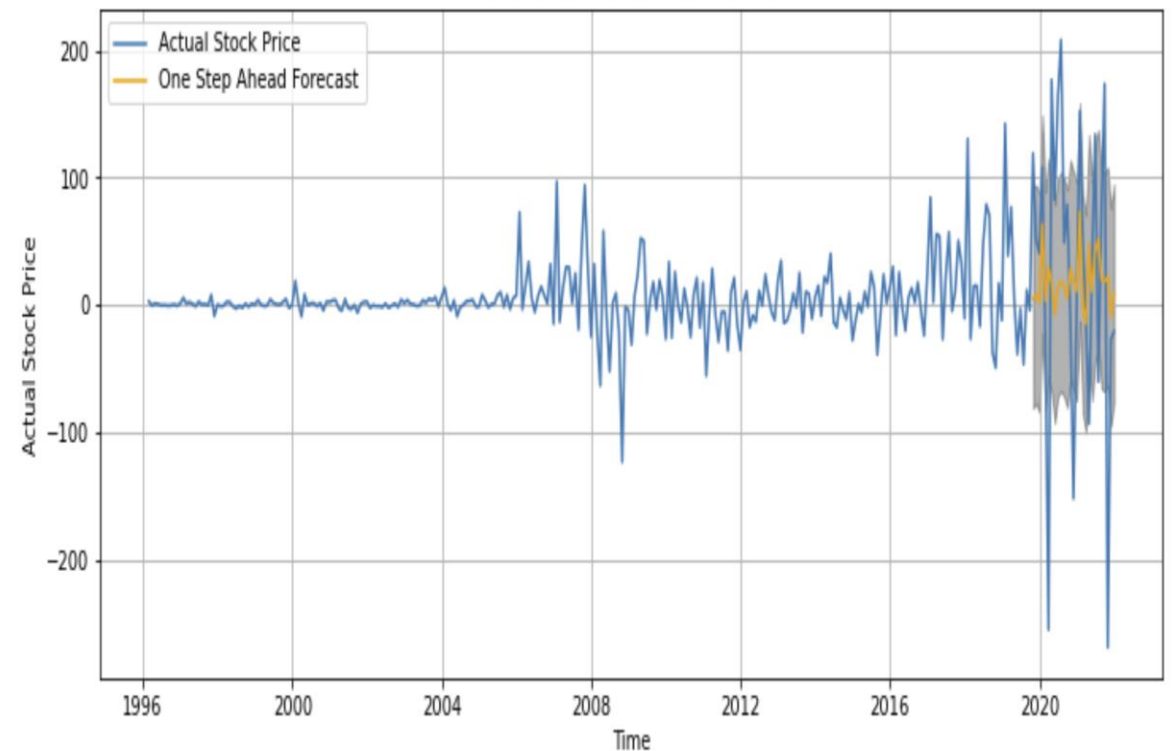


# RELIANCE stock prediction

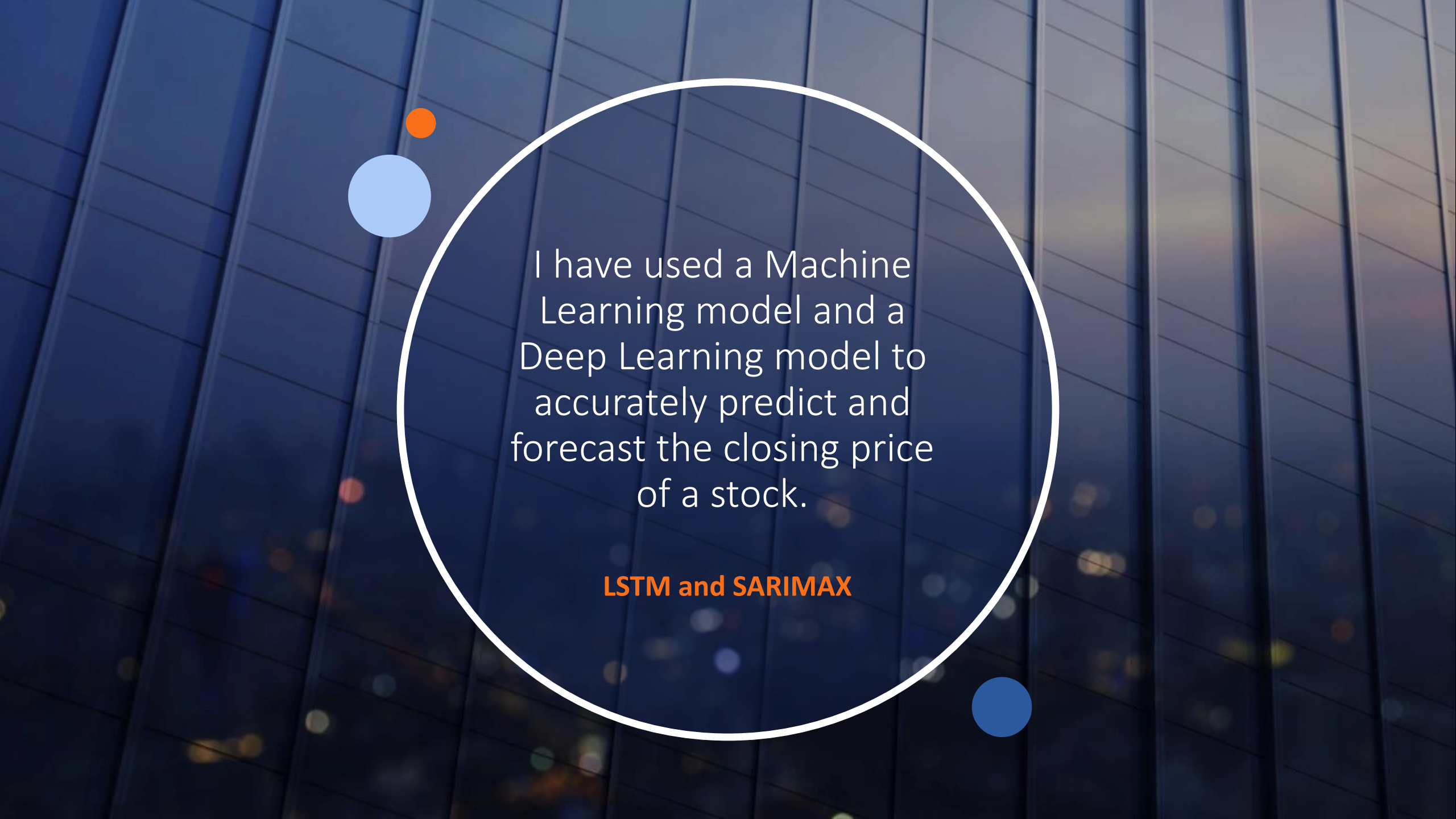
Reliance Stock Price Forecasting



Reliance Stock Price Prediction





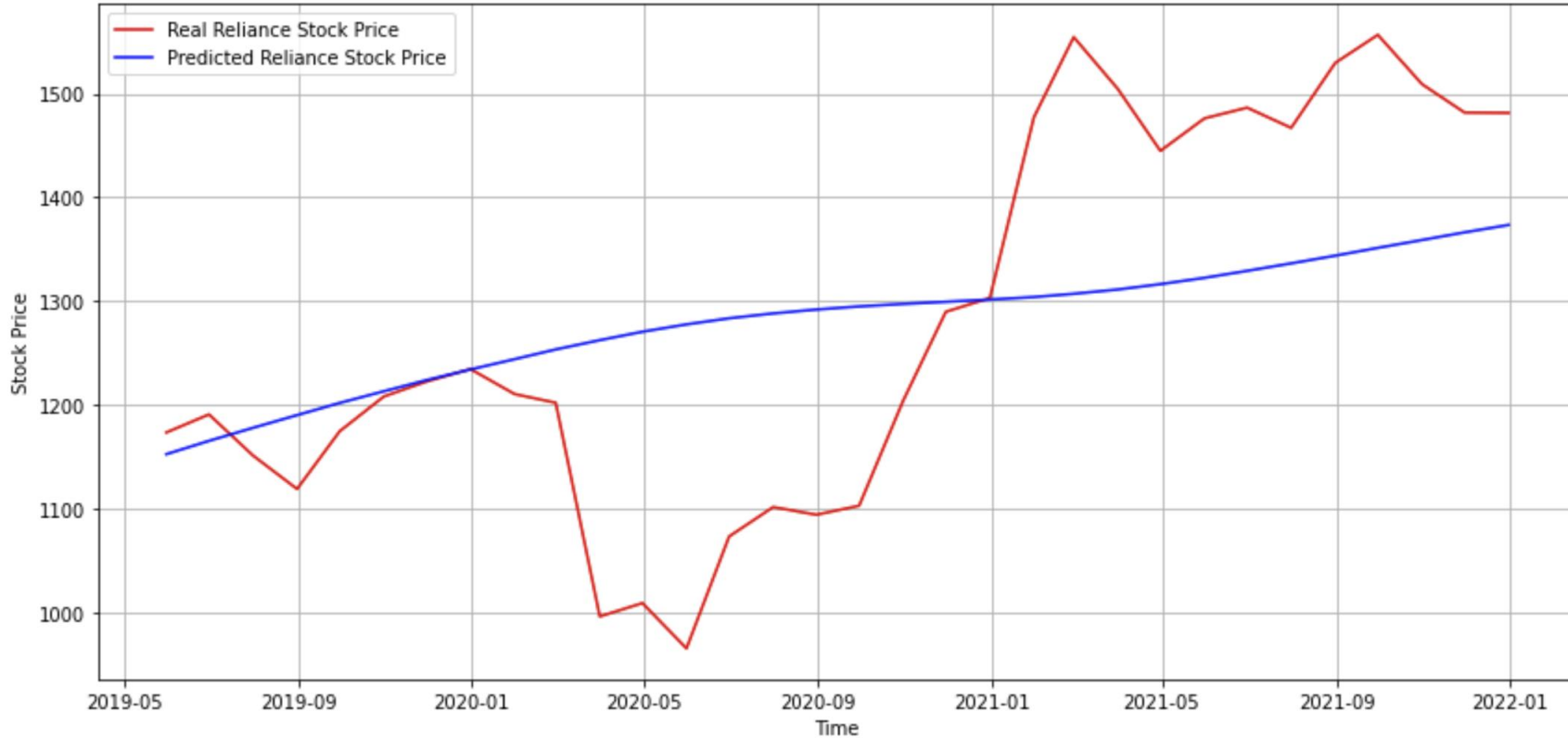


I have used a Machine Learning model and a Deep Learning model to accurately predict and forecast the closing price of a stock.

**LSTM and SARIMAX**

# HDFC stock prediction using LSTM

Reliance Stock Price Prediction



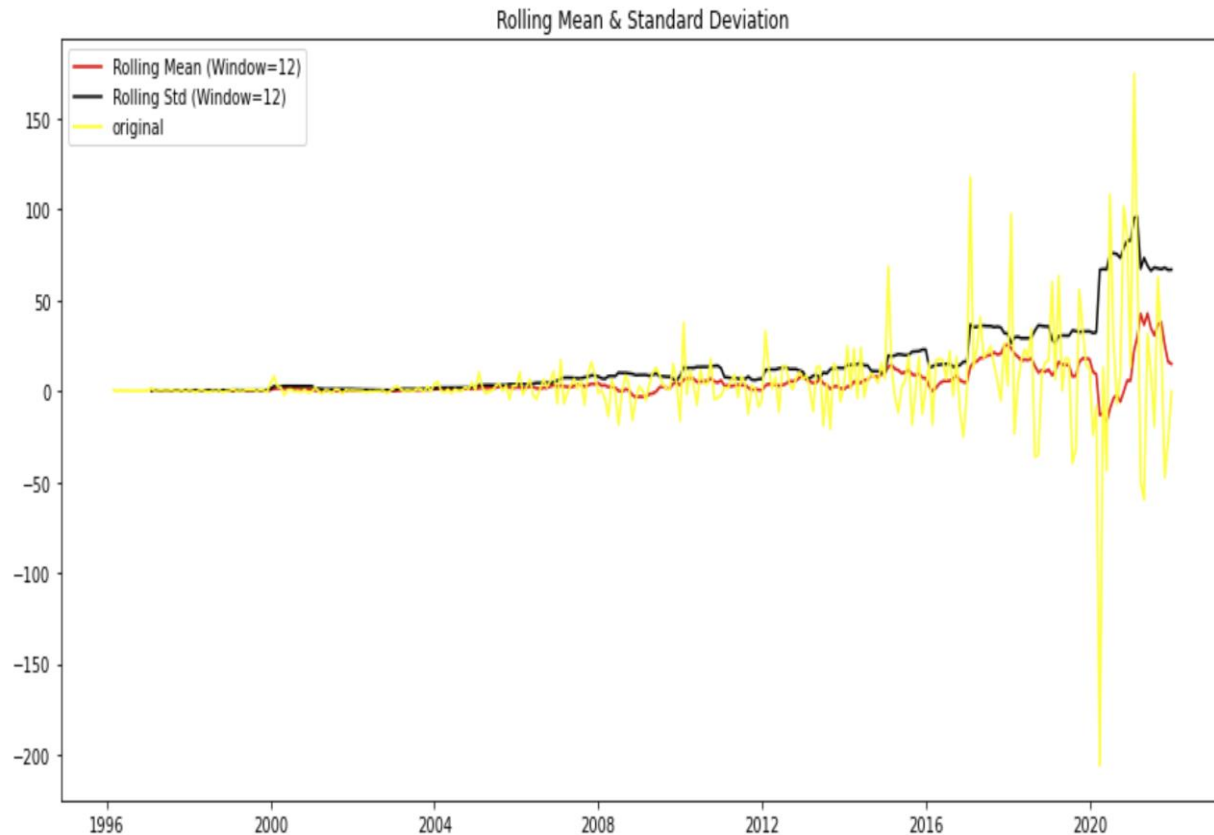
LSTM predicts the actual stock price while a lot of data manipulation is needed to correctly present the predicted and forecasted price using SARIMAX.





# Procedures

## Stationarity Check!



## Resampling

- The stocks have been resampled to monthly mean instead of daily values to streamline the modeling process and better data representation.

# Summary



We're delivering for our customers



Stock market business is ever lasting



High potential with low risk



We're getting our work done



Plan to diversify to annual reports



Mobility and efficiency





# Conclusion

Thanks to your commitment and strong work ethic, we know next year will be even better than the last.

We look forward to working together.

Vinayak Modgil

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To look at the whole catalogue of stocks, visit this [link](#)

