Stock Price Prediction

CONTEXT

In this notebook we will be looking at the stock market history data , particularly two technology stocks. We will learn how to use pandas to get stock information, visualize different aspects of it, and finally we will look at a few ways of analyzing the risk of a stock, based on its previous performance history. We will also be predicting future stock close prices through a Long Short Term Memory (LSTM) & Autoregressive Integrated Moving Average (ARIMA) and suggesting the best predicting mode

CONTENT:

We would be using Yahoo financials (stock market) to get the historic data of AMAZON & GOOGLE. The data has features such as the Date, High, Open, Low, Adj Price, Volume

- Amazon dataset has 2518 records and 6 features.
- Google dataset has 2752 records & 6 features.

Both models learns from the data(Test & Train) and be able to predict the stock.

CONCLUSION

For both AMAZON & GOOGLE, ARIMA model offers better prediction accuracy with respect to LSTM and is relatively fast as in terms of training/fitting time and complexity.

Based on ARIMA modelling outcome and prediction, GOOGLE is better Stock to buy than AMAZON