Stock Market Prediction

**PROJECT DESCRIPTION**

* **PREDICATION USING LSTM MODEL AND STOCK ANALYSIS DASHBOARD**

In this machine learning project, we will develop stock prediction model with neural network to predict the returns on stocks.

Learn how to develop a stock price prediction model and how to build an interactive dashboard for stock analysis. We implemented stock market prediction using the LSTM model, Plotly dash python framework for building dashboards.

**Category:** Machine Learning, Deep Learning

**Programming Language:** Python

**Tools & Libraries:** Plotly Dash, LSTM

**IDE:** Jupyter

**Front End:** Plotly Dash (for visualization)

**Back End:** NA

**Prerequisites:** Python, Machine Learning, Deep Learning, Neural Network

**Intended Audience:** Education, Developers, Data Engineers, Data Scientists, Data Analysis

* **Libraries Used in this project:**
* Matplotlib
* Numpy
* Scikitlearn
* Pandas
* Keras

**List of trained model with accuracy:**

* Linear Regression : 57%
* Polynomial Regression : -30%
* Decision Tree Regression : 1.38%
* Random Forest Regression : 40%
* Support Vector Regression : -1%
* Moving Average : 84%
* LSTM(Long Short Term Memory Network) - 97% according to Survey