**Machine learning**

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**Coding Language :** Python

**Project Topic :**

Stock Price Prediction

**Technique/Algorithm :** RNN for time series prediction

Recurrent Neural Network(RNN) with Long Short Term Memory (LSTM)

**Dataset Details :**

**Attributes:**

Date

Open Price

Highest Price

Lowest Price

Close Rate

Number of Shares Traded

**Instances:**

650

**Data distribution:**

**Open** - SUM - 5327223

AVG - 753

MIN - 92.5

MAX - 3235

COUNT - 7073

MEDIAN - 720.25

Standard deviation - 566

**High** - SUM - 5404097

AVG - 764

MIN - 95

MAX - 3252

COUNT - 7074

MEDIAN - 729.25

Standard deviation - 576

**Low** - SUM - 5248368

AVG - 742

MIN - 88.7

MAX - 3135

COUNT - 7074

MEDIAN - 714.25

Standard deviation - 556

**Close** - SUM - 5323388

AVG - 752

MIN - 91.7

MAX - 3216

COUNT - 7074

MEDIAN - 720.25

Standard deviation - 566.16

**Number of shares traded** -

SUM - 1342345318

AVG - 1897844

MIN - 0

MAX - 397311380

COUNT - 7074

MEDIAN - 766147

Standard deviation - 8579857

**Turnover:**

SUM - 8173018481113

AVG - 1155523608

MIN - 91.7

MAX - 510164410

COUNT - 7074

MEDIAN - 562769527.25

Standard deviation - 10604721680

**Dataset:**   
Our dataset can be found on the following link

[**https://www.quandl.com/data/NSE-National-Stock-Exchange-of-India**](https://www.quandl.com/data/NSE-National-Stock-Exchange-of-India)