

# STOCK MARKET PREDICTIVE MODELLING

For

## TATA MOTORS

### Group members

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### Objective

The project aims at applying data analytics and predictive modelling algorithms on TATA Motors stock data considering both pre-covid and post-covid data.

### Data set:

We have taken real time data from yahoo finance of tata motors having attributes like market open price, market closing price, Daily high and low, and market volume spread over a time frame of 1st Jan 2018 to 25th Jan 2022.

Link:

<https://finance.yahoo.com/quote/TATAMOTORS.NS/history?period1=1514764800&period2=1643328000&interval=1d&filter=history&frequency=1d&includeAdjustedClose=true>

### Process

Data collection

Data Preparation and dimension reduction

Data Exploration using time series analysis and forecasting

Data Visualization and predictive modelling