

## Stock Analysis Report

### **Problem Statement:**

The aim of the project is to determine which stocks should we BUY/SELL/HOLD based on the technical analysis using moving averages calculated over a period of 20 days [short term] to 50 days [long term].

### **Summary:**

We have been given data for 6 stocks in the form of csv files from 1-Jan-2015 to 31-July-2018.

The following steps have been done.

- Import the csv files into the database with required columns (Date and Close price) for each stock.
- We have calculated the Moving Averages both short term [20 days] and long term [50 days] for each stock
- Later, we have generated the trade signals (BUY/SELL/HOLD) based on the crossover periods from March 13, 2015 to July 31, 2018 for each stock.

### **Key Observations:**

As per the generated trade signals, Please find the below inferences (predictions) drawn for each stock: We have taken the buy/sell signals having highest closing price.

#### ➤ **Bajaj Auto:**

- Buy - 18/05/2015 at closing price of 2221.95/-
- Sell - 25/01/2018 at closing price of 3303.20/-

#### ➤ **Eicher Motors:**

- **Buy** - 11/01/2016 at closing price of 17257.20/-
- **Sell** - 13/10/2017 at closing price of 31368.20/-

#### ➤ **Hero MotoCorp:**

- **Buy** - 20/10/2015 at closing price of 2605.05/-
- **Sell** - 04/10/2017 at closing price of 3794/-

#### ➤ **Infosys:**

- **We have noticed a downward price trend.(As per the Dates)**
- **Sell** - 31/03/2015 at closing price of 2216.60/-
- **Buy** - 24/10/2017 at closing price of 926.75/-.

#### ➤ **TCS:**

- **Buy** - 02/01/2017 at closing price of 2359.05/-.
- **Sell** - 22/03/2018 at closing price of 2829.95/-

#### ➤ **TVS Motors:**

- **Buy** - 07/10/2015 at closing price of 241.30/-
- **Sell** - 29/01/2018 at closing price of 719.70/-