Report on Stock Analysis

Summary:

We have dataset from NSE website. The Stock price data is from 1-Jan-2015 to 31-July-2018 for six stocks namely Eicher Motors, Hero, Bajaj Auto, TVS Motors, Infosys and TCS. Each dataset has 889 rows and 13 feature columns.

Trade Signal is generated based on the commonly used trading rule of price crossover i.e. when the shorter-term [20 days] moving average crosses above the longer-term [50 days] moving average, it is a signal to BUY, as it indicates that the trend is shifting up (known as a Golden Cross) and when the shorter term moving average crosses below the longer term moving average, it is a signal to SELL, as it indicates the trend is shifting down (known as the Death Cross).

Objective:

The objective of this assignment is to determine which stocks can be bought/sold/held based on the moving averages calculated for a period of 20 days [short term] to 50 days [long term].

Inference Drawn:

As per the trade signals calculated in the current assignment, the best predictions to buy and sell stocks are given below:

1) Bajaj Auto :
   - Buy - 18/05/2015 at closing price of 2221.95/-
   - Sell - 25/01/2018 at closing price of 3303.20/-

2) Eicher Motors :
   - Buy - 11/01/2016 at closing price of 17257.20/-
   - Sell - 13/10/2017 at closing price of 31368.20/-

3) Hero MotoCorp :
   - Buy - 20/10/2015 at closing price of 2605.05/-
   - Sell - 04/10/2017 at closing price of 3794/-

4) Infosys :
   - Buy - 24/10/2017 at closing price of 926.75/-
   - Sell - 31/03/2015 at closing price of 2216.60/-

5) TCS :
   - Buy - 02/01/2017 at closing price of 2359.05/-
   - Sell - 22/03/2018 at closing price of 2829.95/-

6) TVS Motors :
   - Buy - 07/10/2015 at closing price of 241.30/-
   - Sell - 29/01/2018 at closing price of 719.70/-