

Assignment – Stock Market Analysis

Key Observation and Summary

The Stock price data provided is from 1-Jan-2015 to 31-July-2018 for six stocks Eicher Motors, Hero, Bajaj Auto, TVS Motors, Infosys and TCS.

Purpose of this data analysis to generate Buy/Sell/Hold signals for stocks using SQL, for that I have used 20 and 50-days moving average. For generating the signal, I am using LAG () function that allow to look back a number of rows and access data of that row from current row. Also creating user define function of Bajaj stock to quick check signal of a particular date.

As part of the data analysis I have generated the BUY/SELL/HOLD signal for 6 different companies stocks using below inferences/Condition.

1. Golden Cross trend with LAG (): 20 day moving average taking over 50day moving average generates BUY Signal.
2. Death Cross trend with LAG (): 50 day moving average taking over 20 day moving average generates SELL signal.

A brief look of stocks:

<u>Stocks</u>	<u>Buy Signal</u>	<u>Sell Signal</u>	<u>Hold Signal</u>
Bajaj	12	11	865
Eicher	6	7	875
Hero	9	9	870
Infosys	9	9	870
TCS	12	13	863
TVS	8	8	872