

# Intro to Data Management

## Assignment - Stock Market Analysis

### Key Summary:

The Stock Market Dataset provided consisted of stocks of various companies. Raw Data itself contained too many variables that were of not too much importance while carrying out analysis and only few variable were taken into account for analysis. Eicher stock close prices were way above any other company and in one glance it might look that it's good to invest in Eicher but on deep dive one can see that number of shares for Eicher are low and there is too much variation in shares of Eicher and a weak relationship in Volume of Shares and Price of Shares.

While the 'Signals' generated for both Tcs and Bajaj are almost equal, trading in the stocks of TCS will be like trading at a safer side.

### Observations:

1. Signals generated for each company.
2. Maximum for TCS with 12 Buy and 13 Sell and then bajaj with 12 Buy and 11 Sell.
3. Trader can put will get more Opportunities to shell out stock or trade in more number of times herein TCS and bajaj.
4. While in Eicher since closing price is much higher at Buy or Sell signals profit can be significantly higher.
5. At the starting point, it will be difficult to judge the Signal since no past data for MAs. Hence, safer to hold if anyone have any share.
6. Raw data had null values and date format were inappropriate (text). Also additional knowledge of when the stock market works i.e not on Holidays.
7. Shorter term MAs are for deciding or looking into nearest trend. As soon MAs range increases i.e. for more than 100MAs, it gives the trend for longer period of time.
8. It is advised to look at 10MAs to 50 MAs for shorter trend and for 200 or more MAs longer period trend line.
9. Exponential Moving Average gives more emphasize to nearest numbers. Therefore it is preferred more nowadays.

Signals	Buy Sell	
	Buy	Sell
tcs	12	13
bajaj	12	11
infosys	9	9
hero	9	9
tvS	8	8
eicher	6	7

