

Stock Market Analysis:

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Stocks Analysed:

Eicher Motors, Hero, Bajaj Auto, TVS Motors, Infosys and TCS

Data period:

1st Jan 2015 to 31st July 2018

Moving Average Periods:

Short Term: 20 days

Long Term: 50 days

This data analysis is majorly based on the 'Moving Averages'. Moving averages make the stock analysis easier by smoothening the graph. A mere 1 day or week up/down in a stock values cannot be relied on. In the analysis, the moving averages are calculated for short term duration of 20 days and long term duration of 50 days. Some of the key findings from the data are mentioned below.

Comparing the 6 stocks it can be easily seen that:

- Eicher Motors had the highest closing price throughout the given time span. Having average of closing price 23112.31 with minimum and maximum values 14320.60 and 32786.40 respectively. Eicher motors' share price average is nearly 7.3 times that of the second largest average closing price stock i.e. Hero Motors.
- TVS Motors' shares have the lowest prices among the six with prices varying in the range 213.55 to 785.30.

Compare values mentioned below:

	Bajaj Auto	Eicher Motors	Hero Motocorp	Infosys	TCS	TVS Motors
MIN	1949.40	14320.60	2279.80	873.50	1721.20	213.55
AVG	2678.66	23112.32	3157.94	1201.80	2518.68	421.38
MAX	3409.50	32786.40	4047.30	2326.60	3604.80	785.30

Just having greater average does not mean that the stocks are performing well. Hence the analysis was also performed by generating 'buy'/'sell'/'hold' signals for each day. A stock signalling 'hold streak after a buy signal' shows its rising and vice-versa is also true.

- The longest time for which short term MA remained above long term MA (signifying growth streak) was for TVS motors and it was for 388 days straight from date 6th Jan 2017 to 29th Jan 2018.
- In this duration the close price for the stock rose from 385.4 to 719.7 (86.7%). Notably, this stock remained above the golden cross for 757 days out of 840 given for the analysis.
- One would have earned higher returns to investment by investing in the TVS Stock than in Eicher Motors or any other mentioned in above.

Similarly a hold streak after sell signal shows a downfall for the stock.

- Infosys observed the longest downfall trend among the 6 stock. It lasted for 177 days in the 2nd and 3rd quarters of the 2016-17 fiscal year.

To have a better perspective refer the table below.

Date\close prices	bajaj	tcs	tvS	infosys	eicher	hero
01/01/2015	2454.1	2548.2	276.85	1975.8	15239.15	3107.3
31/07/2018	2700.70	1941.25	517.45	1365.00	27820.95	3293.80
Growth in %	38.93	23.18	143.47	-42.07	83.71	20.18

Notice the overall growth of TVS Motor even after having such low stock prices and the fall of infosys stock.
