

Stock Market Analysis- Summary and Inferences

The dataset provided with the contains data for the six NSE listed companies i.e. Motors, Hero, Bajaj Auto, TVS Motors, Infosys and TCS for the time period of 01-Jan-2015 to 31-Jul-2018. Using this data, we need to provide the recommendation based on the Moving Average method whether to Buy / Sell or Hold the stock.

1. The growth of stock price based on the data is shown below

Stock	Old Price (01/Jan/2015)	New Price (31/July/2018)	Growth (Price)	Growth Percent (%)
TVS Motors	276.85	517.45	240.6	86.91
Eicher Motors	15239.15	27820.95	12581.8	82.56
Bajaj Auto	2454.1	2700.7	246.6	10.05
Hero Motocorp	3107.3	3293.8	186.5	6
TCS	2548.3	1941.25	-606.95	-23.82
Infosys	1975.8	1365	-610.8	-30.91

From above data, we get that Automobile sector performed well with TVS Motor and Eicher Motors leading the sector. While, the IT sector ended up with a negative growth rate.

2. Based on the Moving averages for Short term and Long term for each stock we have now identified the Golden cross signaling to BUY the stocks and Death cross signaling to Sell the stocks during the given time periods and the Hold of stocks indicating to neither BUY nor SELL the stocks.

Stock	Buy (Golden Cross)	Sell (Death Cross)	Hold
Eicher Motors	6	7	876
TVS Motors	8	8	873
Infosys	9	9	871
Hero Motocorp	9	9	871
Bajaj Auto	12	11	866
TCS	12	13	864

3. From the below table we can infer that TVS Motors has high volatility and Bajaj Auto has low volatility with respect to their stock prices.

Stock	Close Price (01/Jan/2015)	Close Price (31/July/2018)	All Time Low	All Time High
TVS Motors	276.85	517.45	213.55	785.3
Eicher Motors	15239.15	27820.95	14320.6	32786.4
Bajaj Auto	2454.1	2700.7	1949.4	3409.5
Hero Motocorp	3107.3	3293.8	2279.8	4047.3
TCS	2548.3	1941.25	1721.2	3604.8
Infosys	1975.8	1365	873.5	2326.6

From the above observations we can recommend that investing on Eicher Motors stock would provide a good return value. And not buy stocks of Infosys and TCS.