

Executive Summary

Considering YOY analysis, we observe that the average stock prices of Bajaj, Eicher, TVS and Hero have increased consistently where as there have been fluctuations for the other stocks

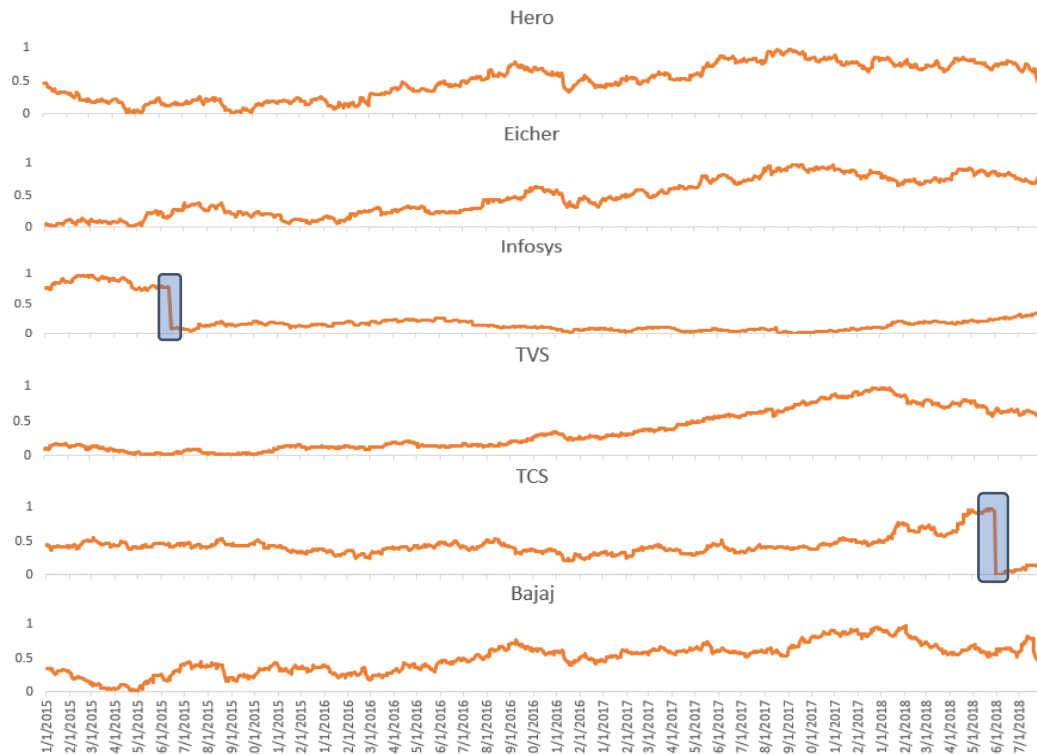
year(date)	avg_bajaj	avg_tcs	avg_tvs	avg_infosys	avg_eicher	avg_hero
2015	2328	2537	259	1548	17385	2602
2016	2607	2419	320	1101	20522	3055
2017	2938	2475	561	963	28072	3562
2018	2953	2729	632	1191	28799	3590

To gain a holistic perspective of how the stocks have been fluctuating over the entire duration, an indexing formula was applied on the Master Table created during the analysis to the varying stock prices just so that we can go ahead and compare the prices and how they've fluctuated day-wise across the duration.

The formula for indexing:

$$\frac{\text{Current Stock Price} - \text{Min Stock Price}}{\text{Max Stock Price} - \text{Min Stock Price}}$$

The above formula indexes every stock to a scale from 0 to 1. The plot below shows the trend of each of the stock over time.



Based on the above plots, we're able to highlight **significant dips** observed in the prices of the Infosys stock in June, 15 and the TCS stock in June, 18.

When analyzing the 20 day and 50 day moving average crossovers over the period of the 4 years data, we observe the following trend:

	No. of Golden Cross	No. of Death Cross
Bajaj Auto	12	12
TCS	13	13
TVS Motors	8	9
Infosys	14	13
Eicher Motors	7	7
Hero MotoCorp	9	10

Infosys had a greater number of trigger signals than any other stock. Below shown is a representation of how the 20 Day/50 Day moving averages for the Infosys stock panned out across the time period:

