

STOCK MARKET ANALYSIS

SUMMARY:

From the stock data given it provides a meaningful insights and the trends for the six stocks provided.

Here we have used moving average method to find the trend of all individual stocks.

We have performed 20 day MA as short term trend and 50 day MA as long term trend.

Initially a table1 is created to find the moving average values for both 20 and 50 days.

Then we have derived the signals for the stocks on individual dates with below approach:

BUY: When the shorter-term moving average crosses above the longer-term moving average

SELL: when the shorter term moving average crosses below the longer term moving average

HOLD: When the signal is neither buy nor sell, it is classified as "hold".

Then we have created a function which gives the signal for the date provided as input:

Analyzed table:

Company	Buy signal	Sell signal
Bajaj Auto	12	11
Eicher Motors	6	7
Hero Moto Corp	9	9
Infosys	9	9
TCS	12	13
TVS Motors	8	8

The above table provides the total number of buying or selling options of stocks for the given duration.

As observed that across the year data provided it is seen that Bajaj and TCS have created more signals for buying and selling them across the years.

The equal trend of stocks have been Hero MotoCorp, Infosys and TVS motors.

Hence this helps us to get an overview and understand the trend of the stocks provided in a stock market.