

Assignment-1

Algo Findev

INSTRUCTIONS

1. Please Read the Problem statement carefully; you have to be mindful of the conditions given.
2. Plagiarism will be highly penalized.
3. Carefully read the structure of deliverables.

GOOD LUCK!

From the prerequisite material provided to you, we hope you learnt a lot of new stuff(yeah we trust you). So now it's time to apply that knowledge to build your first indicator which will open your doors for your first huge chunk of profit (well stock market makes people rich right?).

For the first assignment you will build a simple moving average indicator using simple and exponential moving average for any one of NIFTY 50 stocks. You should follow the below steps:

- Open a jupyter notebook and install the required dependencies (numpy, matplotlib, seaborn, yahoo finance)
- Choose any NIFTY 50 stock
- Download its Yahoo Finance data
- Find the simple and exponential moving averages for a 3 month time frame.
- Voila! Now, Plot the indicator using matplotlib or seaborn or any other library you want.

Note that you can play around with the graph plotted and the indicator so formed. Most importantly, try not to copy from other mentees or from the internet. You are allowed to see how a library is used from the internet! Ask us if you still can't figure it out. Also, don't use TA-Lib directly for finding MAs.

Now once you've finished building this indicator, then you have to do the git stuff explained below.

- Fork the master github repository (will be shared with you soon)
- Create a folder with your name in format "*Roll no.- Name- Assignment number*" (eg "210813-Rajat Gattani- 1").
- Now push this folder in the Assignment 1 section of finance in the forked repository which will contain the PS doc for this assignment.
- Finally, create a pull request to the master repository.

This can be overwhelming at first, but if you go through this properly once, you won't face any issue hereafter.

So the final deliverables consist of a Jupyter Notebook with the above implementation. Best of luck, and contact us in case of any problem :)