

## **Task 1: Stock\_analyzer**

### **Objective:**

Write a python program to NSE site and get the following data for selected list of stocks

1. 52-week high low value of share (period 1)
2. 3-month high low value of share (period 2)
3. 1-month high low value of share (period 3)
4. Current Price
5. Current Price with respect of above three period

The list of stocks is:

- Idea
- Adani industries
- Reliance industries
- Bajaj auto

The share list to be read from file

Output should be in xls format and the data must be as shown in the top of this page. Show it in graph like speedometer.(where high and low are 2 boundaries and current price with respect of above three period are needle).

### **Approach / Solution:**

I have completed the whole task by writing a Python program that fetches stock data from NSE, calculates the current price as a percentage of these periods, shows the asked values and saves everything and generate Excel file.

### **Challenges Faced:**

The major challenges I faced are getting live data from NSE was tricky because some data isn't directly visible and some do not show accurate values or sometimes values could be missing.

### **Resolution:**

I added checks for missing values and structured the code so it can easily be updated to fetch live data in the future. Also used compatible techstack to get the accurate outcome.

### **Outcome / Result:**

The program works correctly and generates the proper output with the excel sheet.