

## USA stock Market Analysis using Python, Pandas and NumPy

The total marks are 50; maximum time to complete this project is 15 days, the final report shall be submitted in the form of a Jupyter-notebook. The reported shall be well organized and formatted.

---

The aim of this project is to extract information about the following technology stocks, from the online stock trading sites.

1. NVIDIA Corporation.
  2. Texas Instruments Inc,
  3. Cisco Systems Inc.
  4. Advanced Micro Devices Inc.
- 
1. Visualize different aspects of the stocks like the Adjusted Closing Prices, Volumes of stocks traded on a particular day, moving averages of the closing price and the daily returns on the stocks.
  2. Create correlation plots for the daily percentage return and Closing prices of the stocks to check how correlated two stocks are.
  3. Find stocks which are positively correlated with each other, negatively correlated (if there is any).
  4. Use the information gathered on daily percentage returns for Risk Analysis by calculating the Expected Return and standard deviation.
  5. Create a scatter plot for comparing the Expected return of stocks to its risk. Visualize the risk factor of various stocks.

**Note:** The data visualization packages shall be chosen according to natures of the problems to solve.