

Data Analytics Task

You are tasked with building an algorithm trading model using the data set attached and applying the algorithm and measuring the profit or loss. Then do an enhancement on the model and check how it affected the profit or loss.

Duration: 5 Calendar Days

Dataset:

You are provided with 4 data sets for 4 stock-listed companies, containing historical stock data. The dataset has the following columns:

- Date: The date of the data point
- Open: The opening price of the stock
- High: The highest price of the stock during the day
- Low: The lowest price of the stock during the day
- Close: The closing price of the stock

Kindly note, data is correlated, so there is no need for a correlation between them. They are by nature correlated.

Requirements:

Use Python and any relevant libraries for data analysis and machine learning (e.g., Pandas, NumPy, Scikit-Learn).

Your solution should include the following:

- Data preprocessing (e.g., handling missing values, scaling features)
- Model selection and training (e.g., Linear Regression, Random Forest)
- Evaluation of the trained model showing profit or loss.
- Enhancing the model
- Provide comments in your code to explain each step.

Steps to complete

1. Choose any company data set to build the algorithm with and test it.
2. After finishing, apply the same algorithm to other companies and show the profit or loss.

Submission:

- Submit your Python script along with the data file used in a zip file.
- Any insights gained during the process.
- Present your results in a PowerPoint presentation in 10 minutes.