

Greetings from ResoluteAI!

Thank you for your interest in our internship opening. As a next step in the screening process, you are required to complete the below mentioned assignment.

Role: Data Analyst- Intern

Dataset: PFA

Evaluation method: Approach would be given importance over result

Choose any one from the options below.

Option 1: Clustering/Pattern Mining

points: 10

Complexity: Beginner

Task: Use any unsupervised technique to extract patterns or segregate data into groups.

User Story: User should be able to provide a data point (a row) and the program should be able to identify to which group a given data point belongs to and why?

Option 2: Prediction

points: 20

Complexity: Beginner

Task: User Story: User should be able to provide a Customer ID and Date, and the program should be able to predict quantity.

Option 3: Recommendation

points: 30

Complexity: Intermediate

Task: Recommend item to the given customer id for a given date.

User Story: User should be able to provide a Customer ID and Date, and the program should be able to recommend items to be purchased.

Submission: Send a screen recorded video(zipped) of the user story or upload into your google drive and share link **with view and download access**(please ensure to **rename the video to your full name** before sending it, videos without applicant's name in filename would not be considered for evaluation).Once approved we will ask for the code.

Note:

1. You are free to choose open source models and codes. Please ensure that there is no complete copy paste done.
2. For ease of processing, can filter and use data for any one country.
3. You are free to add external features relevant to the dataset.
4. Data preprocessing, pivoting, pattern mining, hidden insights are what we would be looking at.
5. **Approach would be given importance over result**