Problem Description

You are tasked with developing a machine learning project as part of a coursework assignment.

The project should be implemented in Python using Jupyter Notebook and must demonstrate the following:

1. Data Handling

- Load and preprocess a dataset of your choice.

- Apply necessary cleaning, transformations, or feature engineering steps.

2. Model Implementation

- Implement at least one machine learning algorithm (e.g., regression, classification, or clustering).

- Train the model on the processed dataset.

3. Evaluation

- Evaluate the model's performance using appropriate metrics.

- Provide visualizations (e.g., plots, charts) to support the evaluation.

4. Documentation

- Include explanations and comments in the notebook to describe each step.

- Summarize the findings and results at the end.

The solution to this problem is provided in the attached Jupyter Notebook file: Yalda Chamani_Project2.ipynb.