AI Project Evaluation Guidelines

The evaluation of your AI projects will proceed in two phases. Please adhere to the following strict deadlines for the evaluation:

- **Phase 1 Evaluation:** November 23, 2024
- **Phase 2 Evaluation:** December 6, 2024, December 7, 2024

These deadlines are non-negotiable. Requests for extensions will not be considered.

Project Requirements

For your chosen project domain, the following requirements must be met:

1. **Model Selection and Execution**
   You are required to implement **two** machine learning or deep learning models (or any other models best suited to your domain).
2. **Model Understanding**
   Demonstrate a solid understanding of the models' mechanisms, including their hyperparameters. Your explanation should reflect a deep knowledge of how each model operates.
3. **Data Preprocessing**
   Perform complete data preprocessing for each model. Each step should be clearly explained and well-supported with reasons.
4. **Feature Selection**
   Carry out feature selection for both models, with clear explanations for why each feature was chosen.
5. **Result Visualization**
   Provide visualizations, such as graphs and charts etc, that effectively convey each model's results.
6. **Model Comparison**
   Compare both models to identify which performs better in your specific scenario, providing a rationale for your conclusion.

Each section will be graded separately. Merely running the models and presenting results will not be enough. Full credit will be awarded only if each requirement is addressed comprehensively.

Phase-Specific Instructions

- **Phase 1 Requirements:**

  1. Complete preprocessing and feature selection for both models.
  2. At least one model should be 50% complete (ie: accuracy is not the focus at this stage; the model should simply produce outputs, whether good or bad).

- **Phase 2 Requirements:**

  1. Both models should be fully implemented and optimized for accuracy.
  2. A comprehensive model comparison, along with detailed visualizations, will be included.

Best of luck with your projects.