

Group Proposal Presentation Assignment

Course Title: Machine Learning for Smart Agriculture

Due: August 8th 2024 -Presentations are last hour of class.

Objective

The objective of this group proposal presentation assignment is for students to present their proposed projects, demonstrating their planned approach and methodology for applying machine learning techniques in smart agriculture.

Assignment Guidelines

1. Presentation Duration

- Each group will have 5-10 minutes to present their project proposal, followed by a 2-minute Q&A session.

2. Presentation Content

Each presentation should cover the following sections:

a. Introduction

- Briefly introduce the group members.
- Provide an overview of the proposed project topic and objectives.

b. Problem Statement

- Clearly define the agricultural problem you aim to address.
- Explain the significance and impact of this problem in the context of smart agriculture.

c. Literature Review

- Summarize key research papers or projects related to the topic.
- Highlight gaps in existing work that your project aims to fill.

d. Proposed Methodology

- Describe the machine learning techniques and algorithms you plan to use.
- Explain the data sources you intend to use and your data collection and preprocessing strategies.
- Outline the model training process and any anticipated challenges.

e. Expected Outcomes

- Discuss the expected results and their potential impact on smart agriculture.
- Highlight how your project could provide innovative solutions to the problem.

f. Project Timeline

- Provide a detailed timeline of your project, including key milestones and deadlines.

- Include a Gantt chart or similar visual aid to illustrate your timeline.

g. **Conclusion**

- Summarize the key points of your proposal.
- Discuss the potential implications and significance of your proposed work.

3. Presentation Format

- Use a slide deck (e.g., PowerPoint, Google Slides) to structure your presentation.
- Ensure slides are clear, concise, and visually appealing.
- Include citations for any referenced work.

4. Evaluation Criteria

- **Content (5%):** Clarity of problem statement, proposed methodology, and expected outcomes.
- **Presentation Skills (3%):** Clarity, engagement, time management, and response to questions.
- **Visual Aids (2%):** Quality and relevance of slides, graphs, and other visual aids.
- **Feasibility and Innovation (1%):** Practicality and novelty of the proposed project.

5. Submission

- Each group must submit their presentation slides at least 24 hours after the presentation time.
- Submit any additional materials (e.g., preliminary data, references) that support your proposal.

6. Additional Notes

- Practice your presentation multiple times to ensure smooth delivery.
- Be prepared to answer questions from the audience and instructors.
- Collaboration and equal participation from all group members are expected.