

CS 5393 – Introduction to Machine Learning

Fall 2025

Project Presentation

Due Thursday, Dec 9, 2025 at 1:55 PM

Final Project Presentation Guidelines (8 minutes per team/individual)

Each team/individual will have **8 minutes** to present their project. Given the time constraint, your presentation should be **clear, concise, and focused** on the key elements of your work.

Tips for an Effective Presentation

- Keep slides **clean and readable**—limit text and avoid clutter
- Use **graphics** and **tables** to support key points
- Rehearse to ensure you stay within the **8-minute limit**
- Focus on **what you did, why it matters**, and **what you learned**

Below is a suggested slide structure to help you organize your presentation effectively:

Slide 1: Title Slide (30 seconds)

- Project Title
 - Team Member Names
 - Course Name and Semester
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Slide 2: Problem Overview and Objective (1.5 minutes)

- What problem are you solving and why is it important?
- Clear description of your project's objective (mention the machine learning task(s) you are doing)

Slides 3-4: Dataset Exploration (1 minute)

- Describe the dataset (size, features, types)
 - Show key visualizations (distributions, outliers, correlations)
 - Mention any interesting patterns or challenges in the data
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Slide 5: Data Preprocessing (1 minute)

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- Explain key preprocessing steps (e.g., handling missing data, encoding, normalization)
 - Briefly mention how the dataset changed after preprocessing
 - If relevant, highlight decisions that significantly impacted model performance
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Slide 6: Machine Learning Models (1.5 minutes)

- Describe the machine learning algorithms you used
 - Briefly explain how you build models for each algorithm
 - Mention how you selected the best version of each algorithm
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Slide 7: Evaluation & Results (1.5 minutes)

- Show performance metrics (use a table or chart if helpful)
 - Compare models and highlight which one performed best
 - Interpret the results—what do they mean in the context of your problem?
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Slide 8: Conclusion & Future Work (1 minute)

- Summarize key takeaways and what your project achieved
 - Discuss any limitations or areas for improvement
 - Briefly mention ideas for future work if you had more time or data
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