

Final Project Guidelines

Overview

The course project is your opportunity to work with the course instructors and TFs to explore a topic in depth. The list of applied includes sports, political science, finance, social science, and commerce. You will work in groups of 3 to 4 students. If you are looking for project partners, we suggest you post on Ed.

Projects for 209A teams will be graded at a higher level. These projects must implement a method that was not discussed in class. Therefore, students enrolled in 109A should not form a team with students in 209A unless they are themselves comfortable with being graded at this higher level (any mixture groups will be graded at the 209A level).

Milestones

1. Fri, October 4: Group Creation and Project Selection (2 points)

Make a group for your team (3 - 4 students) by choosing from pre-made Canvas Groups labeled 'Final Project #', and select your team's 1st, 2nd, and 3rd choice for a project topic in the 'Final Project - Milestone 1' assignment on Canvas. All team members should enter the group before submitting and only one member of your group should submit. If you do not have a group you still need to submit your preferred project topics individually in this Canvas assignment, and we will assign you to a team.

2. Fri, October 18: Scope of Work and Preliminary EDA (3 points)

Submit the Scope of Work form on Canvas in the 'Final Project - Milestone 2' assignment. The Scope of Work form will prompt you for the following information:

- Project statement. The project goal in the posted project description is not fully formulated or tuned. Based on the project description and references, state a well-defined question that you'll address in the project.
- Preliminary EDA. Explain your plans for preliminary data exploration. Please take care when specifying your plans, so that team members can work individually on these tasks if need be.

3. Wed, November 20: EDA and Revised Project Statement (15 points)

On Canvas in the 'Final Project - Milestone 2' assignment, submit a 2 - 3 page revised project statement and EDA (can be created using Latex, word processing software, etc.) and an accompanying Jupyter notebook (that was used to create the visuals). Your 2 - 3 page submission should include:

- A description of the data: what type of data are you dealing with? What methods have you used to explore the data (initial explorations, data cleaning and reconciliation, etc)?

- Visualizations and captions that summarize the noteworthy findings of the EDA.
- A revised project question based on the insights you gained through EDA.
- A baseline model.

4. **Wed, December 11: Project due** (80 points)

Submit your final project on Canvas in the 'Final Project - Final Submission' assignment. You are required to submit the following:

- Jupyter notebook with relevant code (30 points),
- A link to the report presented on a website (45 points = 40 points content + 5 points for style), and
- A peer evaluation of each team member (5 points) in a separate Canvas quiz (submitted individually).