

Final project guidelines

AI | Fall 2024 | Rasika Bhalerao

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The final project should address a problem by applying existing AI techniques. Examples include predicting a culture trend using Reddit, or figuring out the meanings of emojis in Venmo payments.

Group Work

The final project will be done in groups of 3 or 4 students. In most cases, all students in the group will receive the same grade. In the case of *extreme* imbalance in work distribution, grades for each student in the group will be adjusted based on participation.

Components

The final project grade will come from five components: statement of interest, proposal, paper draft, presentation, and final paper.

- **Statement of interest:** each student will submit a statement of interest, which is up to a paragraph describing a topic on which you would be interested in doing a project. It is okay at this stage to be unsure or have half-formed ideas. I will then assign students into groups based on topics. Students may also indicate a pre-formed group. Students who don't submit this statement will be randomly assigned.
- **Proposal:** each group will submit a project proposal. The goal for the project proposal is to get feedback on feasibility and check for any anticipated missing pieces. It should be a few paragraphs (up to a page) describing:
 - Your idea
 - The problem you are solving
 - Where you will get data
 - What AI methods you will use
 - How you will evaluate your methods
 - Anything else needed to understand your project
- **Paper draft:** each group will submit a paper draft, which is essentially the first half of the final paper. There is no length guideline, and you will not be penalized for lack of results at this stage. It should:
 - introduce and motivate your problem and solution
 - explain how others have solved similar problems (if applicable)
 - describe your dataset
 - explain any results
- **Presentation:** each group will give a 15 to 20-minute presentation in class on December 9 or 11. It is recommended to have one person share a screen with slides. The presentation should have:
 - introduction
 - motivation for the problem
 - description of the dataset

- explanation of the AI and other methods used
 - preliminary results
 - Conclusion
- **Final paper:** Each group will submit a final paper. The paper should include:
 - Introduction / motivation / description of the problem
 - Brief description of how others have solved similar problems
 - Description of the dataset and where you got it
 - Explanation of AI and other methods used
 - Results / discussion of results (Did you solve the problem?)
 - Conclusion
 - Works cited