

Course Project

Advanced Topics in Statistical Learning, Spring 2024

For your course project, you should form a group of 2 or 3 (to be clear: a group of 1, or more than 3, is not allowed) and choose a topic of interest to your group that is “adjacent” to one of the topics covered in lectures. Like the lectures in this course, the topic should have a significant theory component. If you are having trouble finding a topic or a team, consider posting on Ed discussion, or coming to office hours.

By **Tuesday March 19** you should have chosen a group and a topic. On **Friday April 5** your group will submit a 1-2 page writeup, for what we’ll call the “milestone”. Your milestone writeup should provide a preliminary introduction to the topics you will study and provide clear motivation for why they are interesting and/or relevant. (Make sure to state the name of your team members.)

The week of **Monday April 29 through Friday May 3**, we will have class presentations. Each group will something like 6-8 minutes (depending on how many projects we end up having in total). Try not to pack too much in, and don’t go very heavy on details. Just give us the high-level view. To keep things moving along, we’ll use slides (instead of blackboard presentations).

On **Monday May 6**, your group will submit the final project report. The final report should be between 8 to 10 pages, excluding references and appendices. You should strive for a similar structure and level of depth as a typical lecture note in this course. Think about it this way: if you had to teach this class, what would you teach (over a week) that wasn’t covered this year? How would you teach it? Write it up with exactly this in mind. You never know—if we are really taken by it, then maybe we will (with your permission and proper acknowledgement of course) use it as the basis for a new lecture in a future version of the course!

(Details on where to submit your group’s composition, milestone, class presentation, and final report will be announced on Ed discussion.)

Project grading breakdown:

Milestone: 10%

Presentation: 20%

Final writeup: 70%