

## EE270 Final Project Winter 2021

The EE270 project is meant to involve some combination of independent research, data exploration, implementation and testing and/or simulation. This can be a team project consisting 1-2 students per team (possibly 3, but need to confirm). You can propose any research problem that relates to large scale matrix computation, optimization and randomized (stochastic) methods. We have a list of suggested project topics on the Canvas home page as well as sample proposals and posters from previous years under Canvas/Files/Project. These are meant only as broad categories and generic examples. We're also happy to make other suggestions for projects in the office hour.

### Project Proposal

Project proposals are due **February 17, Wednesday 23:59pm**. Each group will submit a single pdf file via Gradescope. The project proposal should include a tentative project title, a list of group members, and a description of the project (1 page limit not including any references). In your project description, describe the problem statement, motivation, the methods you will be focusing on, datasets to be examined, overview of the steps involved, and expected results. The proposal is not set in stone, so you can change your goals after you start working on the project. This proposal will be graded and will count as 10% of your project grade. Please submit the proposal as a pdf file.

### Poster Presentation and Final Report

Finally, you will prepare a poster presentation (5-10 minute) for the virtual poster session (during the last week of classes), and submit a final project report. The report should contain a maximum of 6 pages. The project reports should include a title, a list of group members, a description of the methods, results and discussion. In your project description, describe the problem statement, motivation, the methods you focused on, overview of the steps involved, results, discussion, limitations and further directions. Your posters should contain a summary of your project results (see Canvas/Files/Project/Posters for examples. The report and poster presentation should include a discussion section where you discuss potential improvements and shortcomings of the studied methods. Please submit the poster as a pdf file via Gradescope before **March 18, Thursday 23:59pm**. The deadline of the final report is **March 19, Friday 23:59**.