

# STATISTICS 452/652: Statistical Learning and Prediction

September 28, 2021

## PROJECT 1

### POLICY

1. This project is to be completed *independently*. You may use whatever class materials you wish in completing this assignment. **BUT DO NOT DISCUSS OR SHARE ANSWERS WITH ANYONE ELSE, WITHIN OR OUTSIDE OF THE CLASS.** Failure to follow this directive will result in a failing grade.
2. Late submission will be accepted at a penalty of 2 points/hour (it's a 100 point project).
3. You are allowed to clarify the question requirements. But do not show or discuss your answer with the TA and instructor and seek comments from them.
4. The deadline for submission is Dec 7. Details of how to submit the answer will be posted later.

### ASSIGNMENT

You will be assigned 3 questions. Imagine this is an interview and you are asked those questions. Prepare answers for the 3 questions.

### DELIVERABLES

1. Prepare answers that are competitively better and impressive. All of your competitors for the job are likely to have been asked the very same questions. How would you answer the question in such a way that the answer makes you stand out?
2. Avoid one-liner answer. Try to elaborate as much as possible, **but no more than 1500 words per question** (the average human speaks about 150 words per minute so that's about 10 minutes of talking).
3. You can use ANY online resources for answering the questions. The scope of your answer is not restricted to what are taught in this course, that is, you are welcome to go beyond.

4. Pay attention to avoid plagiarism. Avoid direct copying of the relevant online resources. Rephrase and reorganize what you have read in your own words. Obvious failure to avoid plagiarism may result in a failing grade.
5. Examine your answer before you submit it to make sure that there is no grammatical error.
6. You may find a few open-ended questions vague and non-specific. In fact, this is more likely to be the case in real life interview. Questions are going to be vague. It is your job to figure out how to answer these vague questions in a way that you believe is the best.