Project Report Instructions

Format and Deadline:

- Final project is due May 10th. Please prepare a report and upload it to Canvas by the deadline.
- The page limit for individual projects is 5 and for group projects is 7. Do not exceed the page limit! The references and any appendix do not count toward the page limit. You can use the appendix to add details of dataset, implementation, extra plots, extended proofs, etc., that could not fit in the main text.
- You are free to use single-column or two-column layouts. The paper size is standard letter. Your font size must be greater than or equal to 10pt. Do not use less than 0.5 inch margins. You can use latex or Microsoft word. Either way, we highly recommend using a conference/journal template (e.g. NeurIPS, ICML). They generally provide both .tex and .doc templates. When you submit your final report, it must be in PDF format

Report Structure:

- Introduction: Describe the problem you are studying, some background and the motivation for the problem
- Related Work: You should mention existing related work/papers on your topic, and group them into categories based on their approaches.
- Methods: Describe the methods you are studying for your problem.
  - For experimental projects: you should outline some of the theory underlying the methods you are studying.
  - For literature survey projects, do not copy-paste all the technical details you have seen in your papers; instead, try to present the main ideas.
- Experiments/Results/Discussion: **Clearly explain what you did**, both from a high level, and then in more detail
  - For an experimental project, you should explain the experiments in enough detail (e.g., datasets, environment, experiments). And then discuss and interpret the results.
  - For literature survey projects, you should compare state-of-the-art methods in terms of their strengths and weaknesses. Describe if you propose any new method.
- Feel free to adjust the specific sections according to your needs (e.g. combine introduction and related work or separate the experiments from the discussion or describe the datasets and environment in a separate section).

- *If it is a group project, you should submit one report (i.e. each member submits the same report). Have a section at the end that describes the task accomplished by each member.*

Grading:

Your projects will be graded based on:

- Submitted (10 points)

- Page limit: The main text of report is within the page limit (10 points)
- Structure of Report: The report is structured in a way that makes it easy to follow and understand (10 points)
- Problem Clearly Stated: Succinct and clear problem description appropriate for students with background in this course. (10 points)
- Approach Clearly Stated: Succinct and clear description of approach or approaches, appropriate for students with background in this course. (10 points)
- Discussion and Interpretation of Results: Comparison and discussion according to a set of clearly described metrics, and the results of analysis/experiments are presented as figures/tables/graphs/etc. when appropriate. (10 points)
- Quality of Discussion: Showing a deep understanding of results and main ideas, and/or experimental design (20 points)
- Quality of Writing and Presentation: Terms are properly defined, and there is no unnecessary jargon/complex math without proper explanation. The main ideas should be written in a clear and concise manner. (20 points)
- Overall effort: Sufficient effort has been allocated to the project depending on individual or group project. (10 points)
- Bonus: Originality and creativity if any (refining the existing approaches or experiments, coming up with new approaches or experiments) (10 points)

Total (excluding bonus): **110 - 10 = 100 points**