CMPT 729 - Project Report

The final deliverable of your course project will be a project report. Each report should provide an overview of the work conducted for the project. A template for the report is available here. The report should be at most 8 pages, excluding references. The report should include the following components:

Introduction/Background: Provide background information about the particular problem being explored in the project. What problem is the project tackling? Why is the problem important and interesting? Provide any preliminary knowledge needed to understand the content of the project.

Related Work: Provide an overview of related work in this domain. What was the prior state of the art? What were the limitations of the prior work? How might proposed method address some of these limitations?

Method: Present the method that the project uses to tackle this problem. This can include design decisions for how to model the problem in an RL framework, the choice of algorithms, and any other components that might be important for the system. What are the key design decisions? How does the proposed method compare to prior methods for solving this problem? What are the advantages/disadvantages of the proposed method?

Evaluation: How is the proposed method being evaluated? What benchmarks are used to test the performance of the method? What are the baseline/prior methods that the proposed method will be compared to? Ablation experiments should be conducted to test the effects of key design decisions in the system. When comparing the performance of different models, be sure to average performance across *multiple* models trained with different random seeds. Differences in performance between individual models are generally not reliable.

Limitations/Follow-Up Work: What are the main limitations of this work? Are there any future directions that can help address these limitations?

Grading (10pt)

The report will be graded according to the following criteria:

- **Content (3pt):** clarity and depth of the report. Did the report cover the main components of the project? Did the report include relevant and meaningful content? Did the report provide enough context to situate this work with respect to prior works? Did the report provide a thoughtful analysis of the results of this work?

- **Organization (1pt):** structure and coherence of the report. Was the information logically organized and easy to follow? Did the report effectively balance the content and ensure key points were covered within the allocated page limit?

- **Method (3pt):** technical correctness of the proposed method. Is the overall design of the system well thought out? Are the design decisions and choice of algorithms sensible? Did the report provide clear justifications for crucial design decisions?

- **Evaluation (2pt):** experimental evaluation of the proposed method. Did the report include well thought out experiments that evaluate the effectiveness of the method? Were comparisons to prior methods included? Did the experiments evaluate the impact of important design decisions?

- **Exposition (1pt):** clarity and quality of the writing. Is the information in the report communicated clearly? Is the writing free of grammatical errors?