

COMP 4106 - ARTIFICIAL INTELLIGENCE
WINTER 2020

FINAL PROJECT

TENTATIVE DUE DATE: APRIL 16, 2020

PROPOSAL DUE DATE: MARCH 2, 2020

Description

Each student is expected to select his/her own unique problem for his/her final project. The project carries 30% of the total grade. As such, the problem studied in the project should be equivalent to *about* two (2) class assignments.

The project problem can be in any application domain. However, the problem must be solved using AI techniques. The choice of technique is up to the student. It is not required that the algorithm or approach was covered during the lectures. Also please note that the problem does not have to be a research problem in in any way, shape or form.

Proposal

Before starting work on the final project, students are expected to submit a *brief* 1-2 page proposal of the project. The proposal, which is due by **March 2, 2020**, should cover:

- The description of the problem domain;
- The motivation for the problem;
- The AI techniques to be used (and here, this can be more as a “proposal”).

Deliverables

Each student is expected to submit a final report. You need not submit your source code, but you must be able to demo it to the TA. The final report must include:

- The description of the problem domain and the problem;
- The motivation for the problem;
- The AI techniques/algorithms used;
- The design choices you made;
- The results of applying the above-mentioned techniques to the problem. You should list and explain what worked and what did not;
- The possible enhancements to your study;
- A list of the references that your work is based on;
- An Appendix that describes the requirements for running your code. This is to represent a simple brief “User’s manual” that would, typically, accompany any product.

The report should be clear and concise. The length of the report should be between 5 and 10 pages, and should be proportional to the number of “original” ideas that you implemented. These may be from previous works that you have read, but the actual implementation must be your own. Please do not explain simple ideas with long paragraphs – remember that the main objective of your report is to motivate and describe the work, and present the results in a neat and concise manner.