

Final Project

Due: Aug 15, 2023 at 11:59PM

1 Final Project Specification

1.1 Overview

The purpose of the final project is to give you an opportunity to study an AI topic in more depth than we have in class, and to give a light introduction to academic research. You may work alone or in pairs for the project. The topic you choose must relate to the course – it should be an implementation or application of textbook material, preferably directly connected to, or an extension/application of, a lecture topic. Within those bounds, you can propose any topic you wish.

1.2 Proposal (due July 13)

The first part of the project is the proposal, which must have the following elements:

1. the problem you intend to investigate
2. why it is interesting
3. how you will address it:
 - what data you will use
 - what code you will write
 - what evaluation techniques you will use
4. descriptions of expected results – charts? visuals?
5. what sources you will use

1.3 Project Report (due Aug 15)

The written report is the most important part of the project. You will submit your source code as well, but it won't be graded. Your report should have the following sections:

1. description of the problem that you are solving
2. description of methods you use to solve the problem
3. analysis of solution performance and mention of other possible solutions
4. extensions if you had more time/data/compute power

Make sure to read through the more thorough checklist of what should be included in those sections, and how you should present the report overall. There is not a minimum or maximum length for your report as long as you cover all of the sections thoroughly. The format should follow a traditional academic report with complete sentences and clear descriptions.

1.4 Evaluation

You will be evaluated on the following points. Make sure that they are covered somewhere in your report!

- clear problem motivation
 - clear problem description
 - how is the problem related to AI?
 - why is the problem interesting or important?
-
- mention of different possible solutions
 - benefits and drawbacks of solutions
-
- clear approach/algorithm description
 - why is this approach a good one?
-
- evaluation methodology
 - what tests did you run?
 - did the results demonstrate a good solution?
 - project conclusions
 - how would you improve or extend your project with more time?
-
- writing quality
 - correct grammar, spelling, and paragraph structure

1.5 Presentation (in class on Aug 9)

You will give a short technical presentation of your work to your classmates in addition to submitting a written report. More details to follow.

2 Submission

Submit the proposal via email to kreimendahlf@wit.edu. Other submission details to follow.