

## CS349: Final project

### Project types

For this class, choose one of the following project types:

1. Write a 8-10 page paper on an ethical issue discussed in this class. This should *not* be the same topic you wrote about for your midterm, but like the midterm, it can address issues related to robotics/AI, environmentalism, software liability, social media, etc. In addition to discussing existing literature around a particular ethical issue, you should include your personal analysis of why this is an issue and how to address it. If you work on this as a pair, the paper should be 16-20 pages in length.
2. Expand your midterm paper to a 20-22 page paper. This paper should include the same analysis/research you conducted for your midterm, but it should go into greater depth, such as providing more technical information in terms of examples and studies. One way to do this is assume a more general audience in the introductory sections (where you define terms and position your work in the greater area) then provide greater levels of detail when providing your analysis. For example, you might mention a study and its outcome in the introduction or background section, but provide specific information about the study's methodology/results/counterarguments/etc later on.
3. Create a proof-of-concept prototype for an ethical system/program. This system can either be a standalone program, or an extension/plugin to another product. While this prototype does not need to be fully functional, I should be able to envision its use cases/functionality for when it is a completed product. You will also write a 10-12 page report explaining what ethical issues this system addresses, how it is used, why it is beneficial, and what problems/risks it may encounter. This report should also include any requisite API documentation and technical information regarding how it is built. If you work on this as a pair, the document should be 20-22 pages in length. This page count includes figures, screenshots, code examples, etc.

## Formatting

All projects should be double-spaced in 12pt Times New Roman font. You will include your name (and your partner's name if are working as a pair) and the date at the top of the document followed by the title of the essay. The page count does not include references, which should be included in MLA, APA, or any other recognized style for reference at the end of the paper. You are expected to properly cite all sources.

## Style Guide

Write in an academic style (no informalities or colloquialisms). You can assume your audience is technically-minded and vaguely familiar with the topic, but you should not assume they will understand specific terms, references, or know about specific events. Provide brief explanations for any of these things when referencing them.

You may use the first-person when referring to work you have personally done and when expressing your personal ideas. In general, I prefer that you use the singular first-person "I" unless you are referring to group work, but I'll accept plural first-person "we" references if that's your preference.

For *all* prompts/approaches, your essay must include the following:

1. A high-level overview of the area being discussed and any questions/concerns that your paper will address
2. A thesis statement addressing the prompt in a meaningful, specific way
3. The arguments and counter-arguments related to your stance/explanation and its place in the greater discussion of the issue
4. An in-depth analysis of the research/examples you refer to in your paper
5. A conclusion exploring how your analysis contributes to the greater understanding of the issues and/or how it will help others understand the issues

Please always provide evidence using specific examples or studies rather than referring to high-level, general thoughts and ideas. You may include

your personal views and opinions, but the paper should make it obvious (either explicitly or from easily inferred context) when something is an opinion versus a fact/common knowledge.