

# DMML Ethics Presentation

This assignment is intended to help you learn about recent issues in data mining and machine learning, particularly some of the ethical challenges raised by new technological advances. You have previously written an essay on an assigned topic (e.g., biased data, surveillance, profiling, etc.). Now, you will turn your work into a class presentation.

For this assignment, you have been paired with a partner who has written an essay on the same topic as you. Together you will create a class presentation. This will require additional research to find visuals for your slides and to flesh out any holes in your work thus far. Your final presentation should be accurate, polished, include lots of images and not too much text, and incorporate material from your references while avoiding plagiarism.

Your assigned topic, partner, and presentation date have been provided separately. The list of all topics is provided at the end of this document.

Your presentation should:

- Be in Google slides, shared so that **anyone** with the link can **view**.
- Be designed to take 5-8 minutes.
- Be well-structured, designed, and practiced so that it is engaging and informative.
- Include a references slide at the end listing all the references (at least 4).
- Be accurate.
- Focus on your assigned topic.
- Address these questions:
  - What is the topic?
  - Why is it important?
  - What are some real-life examples?
  - Who is impacted?
  - What role does DMML play in this topic?
  - What are the main ethics issues?
  - What is your recommendation for how society should think about the topic moving forward?

## Evaluation

Your presentation will be evaluated based on whether it meets the requirements above. You will help evaluate your classmates' presentations and provide feedback and your classmates will help evaluate your presentation. This peer feedback will help determine whether your presentation completely, nearly, or somewhat meets the requirements. If your presentation does not completely meet the requirements, you will have an opportunity to use one of your redo

tokens and research a new topic as an essay following the guidelines from the ethics essay assignment.

## Submission

Turn in a link to your slides in Moodle before class time on the day of your presentation. Make sure to update sharing settings so anyone can view (please do not share directly with me), then copy the link, and paste it into the provided textbox for the Moodle assignment.

## Topics

- Exploitation of intellectual property (e.g., in LLMs or image generation)
- AI and job displacement
- Bias (in data, machine learning, AI systems)
- Explainability and transparency (in machine learning models)
- Privacy
- Policing (using AI tools)
- Rising socio-economic inequality (due to AI)
- Safety and accountability of AI systems (e.g., self-driving cars)
- AI vulnerability to hacking/cyber attacks
- Environmental impact of AI
- AI-powered addiction (of apps, games, etc.)
- Targeted advertising (based on algorithms)
- Surveillance (of online activity using AI tools)
- Deepfakes