

# PHI4005: Ethics for Artificial Intelligence

## Team Project (20%)

### Ethical AI Impact Assessment

## OBJECTIVE

1. Develop a nuanced understanding of the ethical challenges posed by LLMs and AI agents.
2. Apply ethical theories and frameworks to real-world scenarios.
3. Explore the intersection of technical possibilities and social responsibilities.
4. Collaboratively research, analyze, and present findings in both written and oral formats.

## Description

Generative AI tools, particularly large language models (LLMs) and autonomous AI agents, are transforming the way we work, learn, and communicate. While these technologies hold enormous promise, they also raise an ethical questions around bias, transparency, accountability, privacy, intellectual property, and the social consequences of automation. In this group project, you will critically analyze the ethical dimensions of generative AI tools and agents by selecting a specific application area (e.g., education, journalism, customer service, creative writing, healthcare, legal advice, etc..). your team will examine both the benefits and risks, connect them to key ethical frameworks, and propose guidelines or solutions for responsible use.

## Requirements:

### Project Phases:

#### Project Proposal (4%)

The proposal ensures your group has a well-defined focus and direction before moving into deeper research and analysis. It should demonstrate that you have chosen an application area for LLMs/AI agents, identified initial ethical issues, and planned how you will explore them.

## **Proposal Requirements (2–3 pages)**

Each group must submit a written proposal that includes the following sections:

1. Project Title
  - A concise and descriptive title
2. Application Area (1 paragraph)
  - Clearly define the context where LLMs/AI agents are being applied (e.g., education, healthcare, journalism, customer service, .....).
  - Briefly explain why this area is significant and relevant for ethical analysis.
3. Problem Statement (1–2 paragraphs)
  - Identify the main ethical questions or dilemmas you expect to explore (e.g., bias in automated grading, misinformation in AI-generated news, privacy risks in healthcare chatbots).
  - Justify why these issues matter socially, legally, or professionally.
4. Work Plan
  - Outline how your group plans to divide responsibilities.
  - Suggest a rough timeline of tasks leading up to the final project.

## **Submission Details**

- Length: 2–3 pages
- Deadline: October 6 (Sunday, 11:59 PM).
- Submission Method: Upload as a single PDF on Brightspace

## **Phase 2: Project Report (10%)**

Each group must submit a structured project report **that builds on their initial proposal.**

## **Report Structure and Requirements**

1. **Title Page**
  - Project title
  - Group members' names
  - Chosen application area
2. **Summary (200–300 words)**
  - A concise overview of the chosen topic, main ethical challenges, and why this area matters.
3. **Background (400–500 words)**

- Explanation of how the chosen LLM/agent application works in practice.
- Identify the key technical features that influence ethical concerns (e.g., prompt design, data sources, ....).

#### 4. Ethical Issues Analysis (800–1,000 words)

- Discuss **at least three ethical concerns** in depth (e.g., bias, privacy, accountability, ...).
- Each concern should include:
  - A clear explanation of the issue.
  - At least one real-world case or academic reference.
  - Why these concerns are important.

#### 5. Stakeholder Mapping (400–500 words)

- Identify the stakeholders affected (e.g., developers, end-users, regulators, ....).
- Explain how benefits and risks are distributed among them.

#### 6. Ethical Tools and Mitigation Strategies (400–500 words)

In this section, your group should move from identifying ethical challenges to **suggesting practical tools, methods, or approaches that can help reduce these issues.**

Select at least two ethical tools or approaches and discuss how to Apply these tools to your case

##### Discuss limitations

Back to your team presentation, No tool is perfect. For each tool you suggest, mention briefly what challenges or trade-offs remain.

#### 7. Recommendations (200–300 words)

- Propose a set of actionable ethical guidelines and recommendations to address the identified concerns.
- Organize recommendations into categories, if necessary (e.g., data collection, algorithm design, user consent).
- Prioritize recommendations based on their potential impact.

## 8. Conclusion

- Summarize the key findings from the ethical assessment and stakeholder analysis.
- Reiterate the significance of the ethical concerns and the importance of addressing them.

## 9. References (at least 6-8 references)

- Cite all sources used in the report (For citation and referencing examples, see [https://owl.purdue.edu/owl/research\\_and\\_citation/apa\\_style/apa\\_formatting\\_and\\_style\\_guide/general\\_format.html](https://owl.purdue.edu/owl/research_and_citation/apa_style/apa_formatting_and_style_guide/general_format.html))

## 10. Formatting Guidelines

- Font: Times New Roman or Arial, size 12, double-spaced.
- Ensure that the report is well-structured, with clear headings and subheadings, and that it maintains a coherent flow of information.

## Phase 3: Presentation slides (6%)

Each group should prepare (10-15 slide) A presentation slide deck for the **Zoom Meeting**.

Before our Zoom meeting, I will share a Google Sheet containing all the available time slots. Each group will need to select the time slot that best fits their schedule for presenting the project.

### Presentation Guidelines:

- When creating your presentation, choose a visual aid like PowerPoint, Google Slides, or Prezi to support your spoken message. Your slides should act as a visual guide that highlights and reinforces your key points, it is not intended to serve as a script.
- Appropriate citations should be included on any slide that uses source information.
- Structure your talk with clear sections for each ethical consideration.

## Format

- Prepare a(15- 20) minute presentation with visual aids (PowerPoint, Google Slides, etc.).
- Ensure all team members participate in the presentation.

## Peer Reflection: Participation Activity 5) (3%)

Each student should reflect on:

- Their personal learning about ethical challenges in generative AI.
- How group collaboration shaped their understanding.

Each group member is required to submit an individual project reflection. This will serve as the final participation activity for the course.

I will provide a Word document template, which each student must complete and submit individually.

## Important Dates:

- **Topic proposal Deadline:** October 6, 2025, at midnight
- **Project Report Submission Deadline:** November 23, 2025, at midnight
- **Presentation slides:** November 23, at midnight
- **Presentation Sessions:** We will schedule a Zoom meeting during week 13 &14 to represent your topic for the whole class. The link to the Zoom meeting will be posted on Brightspace.
- **Peer Reflection (participation Activity5) Deadline:** December 5 at midnight.

## Submission Guidelines:

For our project, you will need to submit four distinct items: the proposal, the project report, the presentation and Project reflection. To streamline the process, I have created separate submission links for each of these components in Brightspace:

- Proposal (4%)
- Your report (10%)
- Your presentation slides (6%)

- *Project reflection (participation Activity) (3%)*

## Assessment criteria:

Check the rubric for detailed assessment criteria.