Project Guidelines

GENERAL INSTRUCTIONS:

1. 3xx level students shall work in groups while students in 5xx level will do the projects individually.
2. B. Tech students must confirm their topics by **Sunday, March 30th, 2025.** Please write your project topics in the Google sheet beside your group names.
3. **Groups must also enter a short (2-3 sentences) description of their topic for preliminary evaluation on whether the project idea meets the ethical requirements.**
4. Groups can link a Google Doc (to the Google Sheet cell in front of their group name, where they enter their topic description/ideas) and receive feedback/comments.
5. **The deadline for final writeup submission is Friday, April 18th, 2025.**

WHAT IS EXPECTED:

Develop the project beyond just identifying challenges. Explore potential solutions, policy recommendations, or best practices to address ethical concerns.

Understanding of Ethical Issues in AI:

- **Depth of Knowledge:** You will be assessed on your grasp of key philosophical problems in AI ethics, such as bias, fairness, transparency, accountability, and the nature of consciousness in machines.
- **Critical Analysis:** You will be expected to identify and analyze ethical issues in existing AI models or from your BTPs/IPs/Projects. This includes understanding how bias can creep into data sets, algorithms, and design processes.
- **Case Studies:** Demonstrate your understanding by applying these concepts to real-world examples. Analyze how ethical considerations have (or haven't) been addressed in specific AI systems. You can use your self-designed projects as case studies, too.

Reasoning and Argumentation:

- **Clarity and Precision:** Use clear, concise, and well-structured arguments throughout your project. Employ appropriate terminology and avoid ambiguity.
- **Logical Reasoning:** Identify and avoid fallacies in your reasoning and the reasoning of others.
- **Ethical Dilemmas:** Demonstrate the ability to identify and analyze complex moral and ethical dilemmas in AI development and application.
- *FOR ALL OF THE ABOVE, it is advised that you thoroughly use class material/readings (you can also use other material as long as you cite*

correctly) and use the same citation style for in-text as well as bibliography (refer to the "report format" section below)

Broader Impacts of AI:

- **Cultural and Social Implications:** Discuss how AI technologies can impact different cultures and social structures. Consider issues like privacy, job displacement, and the potential for social manipulation.
- **Policy Considerations:** Analyze the policy implications of AI development. Explore areas like regulation, accountability frameworks, and international cooperation.

Embedding Ethics in AI Design:

- **Design Principles:** Articulate principles for incorporating ethical considerations throughout the design and development of AI systems.
- **Practical Solutions:** Propose practical solutions or mitigation strategies to address ethical issues in specific AI applications. Understand that more than technical jargon is needed for a good project report.

REPORT FORMAT:

- File Name (This nomenclature format has to be followed strictly): **Project_<Group No.>**
- **First Page:** (This need not be the Title page of your Project Report, BUT these details are mandatory on the first page)

Group Number	TITLE OF YOUR PROJECT
Name of Group Member 1	Roll Number
Name of Group Member 2	Roll Number
Name of Group Member 3	Roll Number
Name of Group Member 4	Roll Number
Name of Group Member 5	Roll Number

- Word Limit: **2500-3000 words**
- Font style and size: **Times New Roman, size 12**
- Line Spacing: **1.5**
- File Format: Google Doc
- Citation style: **APA7**
  (Refer to: https://www.isu.edu/media/libraries/student-success/tutoring/handouts-writing/using-sources/APA7-Style.pdf)
- **Groups must submit on BOTH platforms - Google Classroom and Turn-it-in.**
- **Turnitin submissions are in a different class for the project, and the details will be shared with you.**

ADDITIONAL CONSIDERATIONS:

1. **Citations and References:** Use proper citation styles to acknowledge all sources of information. All project reports shall also be checked for plagiarism and AI use. Only projects with **less than 20% plagiarism** shall be considered for corrections. Using AI in writing the projects is strongly discouraged. **Assignments written either with AI or with more than 20% Plagiarism shall have to be disqualified per the institute policy.**

2. **Originality and Creativity:** Demonstrate a thoughtful and insightful approach to the topic. Consider unique perspectives and showcase your ability to synthesize information from various sources.