

Graduate Certificate in Artificial Intelligence with Machine Learning
AIGC 5504 – Emerging Technologies in Artificial Intelligence

Lab 9: Understanding Generative AI Ethics

Submission guidelines:

- For this lab, you will need to submit 1 PDF file.
 - Convert your codes to PDF.
 - Name the PDF as follows: firstname_lastname_LAB 9.pdf
 - Go to the course Blackboard → Labs folder → Lab Exercises 9 and submit the pdf.
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Lab goals:

- Explore Generative AI tools and reflect on ethical implications.
 - Analyze real-world challenges such as misinformation, bias, and copyright.
 - Use a no-code tool to simulate a scenario involving ethical concerns.
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Part 1: Exploring Ethical Challenges with Generative AI

1. **Simulate a Real-World Scenario:**
 - Choose an ethical issue to explore, such as:
 - AI generating fake news articles.
 - Bias in AI outputs based on gender or cultural stereotypes.
 - Copyright concerns when generating images or text resembling existing works.
2. **Generate an Output:**
 - Create a text, image, or audio sample using the AI tool.
 - Save the output and note any observations (e.g., accuracy, fairness, potential ethical concerns).

Part 2: Ethical Evaluation and Reflection

1. **Evaluate the Output:**
 - Use the following questions as a guide:
 - Does the output exhibit any bias?
 - Could it mislead users or contribute to misinformation?
 - Are there concerns about intellectual property or copyright infringement?
2. **Modify the Input Prompt:**
 - Experiment with prompt variations to minimize ethical concerns (e.g., rephrasing to reduce bias).
 - Observe and save the updated outputs.
3. **Analyze Improvements:**

- Compare the initial and revised outputs.
- Reflect on the effectiveness of prompt modifications.

Part 3: Ethical Incident in AI

1. Research and discuss a specific incident involving the ethics of artificial intelligence. You should explore the ethical considerations, impacts, and lessons learned from the incident, and list everyone involved/impacted. Make sure you source your information from credible resources and cite your work.

Enjoy!
