

# 15-780: Graduate Artificial Intelligence

## Homework 1

Instructor: Aditi Raghunathan

Due date: 1/20/2025 11:59pm

### Instructions

- This homework is intended to encourage critical thinking about the capabilities and trustworthiness of modern AI systems.
- Please provide detailed and well-reasoned responses to the questions below.
- Answers should be clear, concise, and well-supported with examples or explanations.
- Submit your responses as a PDF document on the course's gradescope page by the due date.

### Questions

1. **Come up with your own version of the Turing test for modern AI.**
  - Your test should evaluate the capabilities of AI systems in a concrete and actionable manner.
  - Provide a detailed description of the test, including its objectives, methodology, and evaluation criteria.
2. **How do you use AI systems in your day-to-day?**
  - Discuss specific examples of AI systems you interact with regularly.
  - Reflect on their utility, limitations, and any improvements you would like to see.
3. **Do you trust AI systems in your day-to-day?**
  - Share your thoughts on the reliability and trustworthiness of AI systems.
  - Highlight scenarios where you feel confident or skeptical about using AI.

## Submission Guidelines

- Please ensure your submission is well-organized and properly formatted.
- Use references where applicable to support your answers.
- The document must not exceed **2 pages**.