



## Overview

In this assignment, you will explore how AI generates responses and practice prompt writing and refinement. You will then use an AI tool to learn about computing innovations, create your own definition, and reflect on accuracy and usefulness. Finally, you will propose a topic for use in a course long final project on the Impact of AI.

## Assignment Preparation

Make a copy of this document to record your answers. Rename your copy of the document to **lastname\_intro**, where **lastname** is your last name. You will **place all answers and screenshots** in this Google Document. The steps below will tell you what to put in your answer document - use the spaces provided to insert your answers accordingly.

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## Part 1: Talking to Machines

Use an AI tool to explore how AI generates responses by recognizing patterns and predicting likely outcomes.

**⚠ Note:** URI students may request access to LibreChat which provides a safe environment to protect your data. Some free alternative options include [ChatGPT](#), [Claude](#), [Gemini](#), [Copilot](#), etc. “Free” versions often come at the expense of giving up some data. Consider the types of data that you are inputting and choose the tool that best fits your needs.

**DO THE FOLLOWING:**

- Review the video on [Problem Solving with AI](#) [3:13 min]

- ➔ **Choose an AI tool:** Select your preferred AI tool (LibreChat, ChatGPT, etc.) and open it in a new window.
- ➔ Type in the following prompts exactly as written and record the responses:
- ➔ Prompt 1: "Hello"

AI Response:	
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- ➔ Prompt 2: "What is the weather like?"

AI Response:	
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→ Prompt 3: "Tell me about dogs"

AI Response:	
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→ Respond to the following reflection questions:

1. How did the AI respond to your greetings? What did you notice?

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2. What happened when you asked about the weather without giving your location?

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3. How specific or general was the information about dogs?

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→ **Experimenting with Prompts:** Now try these variations and compare the responses in the analysis table below.

Set A (Simple vs. Detailed Prompts):

- i. Prompt: "Write a story"
- ii. Prompt: "Write a 100 word story about a robot learning to paint"

Set B (Different Contexts):

- i. Prompt: "Explain photosynthesis"
- ii. Prompt: "Explain photosynthesis to a 5 year old"

Set C (Different Formats):

- i. Prompt: "List benefits of exercise"
- ii. Prompt: "Create a poem about the benefits of exercise"

### Analysis Table

Prompt Pair	What changed between the prompts?	How did the AI's response change?
Ai vs Aii		
Bi vs Bii		
Ci vs Cii		

→ Respond to the following reflection question:

4. In 1-3 sentences, explain what makes AI conversations different from human ones.

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## Part 2: Exploring Computing Innovations with AI

Use an AI tool to learn about computing innovations and practice effective prompting.

**DO THE FOLLOWING:**

- **Choose an AI tool:** Select your preferred AI tool (LibreChat, ChatGPT, etc.) and open it in a new window.
- **Create a Prompt:** Using your preferred AI tool, write an initial prompt asking the AI to explain what *computing innovations* are.
- **Refine your Prompt:** Revise or expand your prompt to improve the AI's response.
- Respond to the following questions prompts:

1. What was your initial prompt, and how did you refine it?

2. How did the AI's response change after refinement?

3. Is the response accurate? Identify at least one way you could verify the AI's response.

4. In your own words, what is a computing innovation, and why does it matter? (response should be 100 - 200 words)

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## Part 3: “Impact of AI” Final Project Proposal

From your exploration in the previous step, you may have found that AI is one example of a *computing innovation* that has impacted society for many years. The hype around generative AI in recent years has created heightened awareness of the innovation and has sparked debates about the positive and negative impact of AI in many different areas.

**For your final project in this course, you will research the Impact of AI in a field of interest to you.** This could include the impact of AI in your major field of study or another subject area (like a hobby) that you find interesting. The topic can be broad at first but you may need to narrow the focus as the course progresses.

- Some field of study examples might include “The Impact of AI in...”: Business, Education, Textiles, Psychology, Engineering, Biology, English, Film, etc.
- Some areas of interest examples might include “The impact of AI in...” : sports, photography, fitness, gaming, cooking, travel, etc.

**DO THE FOLLOWING:**

- ➔ Use an AI tool (as you did in the previous step) to research the impact of AI in your field of study or interest.

- Try a few different subjects (within your area of interest) to gain some insights; this is a course long project so the subject should be meaningful to you!
- Provide your final project topic below (for example, “The Impact of AI in Education”)

Final Project Topic:	
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 *The Impact of AI in Education* will be used as a course-long example - do not propose this as your topic. If you wish to research this topic further, be sure to select a subtopic within the field like: assessment, differentiation, tutoring, academic integrity, etc.