Student Activity: Hands-on Practice with AI Tools (GPT-focused)

Objective: To help students understand AI language models and practice prompt engineering through hands-on activities using GPT.

Estimated Time: 30-45 minutes

Setting up ChatGPT Environment

1. **If You Have an Account**:
   - Go to https://chat.openai.com/.
   - Click on **Log In**.
   - Enter your email and password, or use your Google account if you signed up that way.
   - Once logged in, you will be redirected to the ChatGPT interface.
2. **If You Don't Have an Account**:
   - Click on **Sign Up**.
   - Follow the instructions to create a free account using your email or Google account.
   - Once you've created your account, you will be redirected to the ChatGPT interface.

Step 1: Experiment with Prompts

Experimenting with different prompts helps you understand how GPT responds to various inputs.

Example 1: GPT-3 Prompt Experimentation

- Input: "What is the capital of France?"
- Input: "Write a short story about a brave knight."
- Input: "Explain the theory of relativity in simple terms."

Step 2: Fine-Tune the Model

Fine-tuning involves adjusting the model or prompts to improve accuracy.

Example 1: GPT-3 Fine-Tuning

- Adjust the prompt: "Tell me about the history of France" for more specific information.
- Use temperature settings to control the randomness of the output.

Step 3: Integrate AI into an Application

Integrating GPT into applications allows you to create interactive and intelligent systems.

Example 1: GPT-3 Chatbot

- Use the GPT-3 API to build a simple chatbot that answers user queries.
- Test the chatbot with different questions and refine its responses.