Capstone Assignment.docx

**Capstone Assignment**

Welcome to the final assignment page for the course "Musing around with AI and Pedagogy"! As we approach the end of this course, it's time to put your knowledge of AI tools to the test. In this assignment, you have two intriguing options: Text-to-Image and Large Language Models (LLMs). Both options present opportunities to create captivating educational resources by harnessing the power of AI, enriching the learning experience for both educators and students.

Once you've completed your chosen option, we encourage you to share your work in the Capstone Assignment forum with a clear title that indicates the topic of your content. A clear title will help others find your valuable resources. Take a moment to reflect on your process and write and post three key learnings in the forum.

In our last synchronous session, we will share our assignments with each other and synthesize key learning while exploring the benefits and challenges of using AI in education.

See you online as we wrap up this exciting journey together!

**LEARNING OUTCOMES:**

1. Compare and contrast AI tools.

2. Play with various AI tools.

3. Use AI tools to create activities, media assets, classroom resources, and to help make research and development of these assets more efficient.

**YOUR CHOICES:**

**Option 1** Text-to-image

DIRECTIONS:

* Read the following article “How to Use AI to Do Stuff: An Opinionated Guide” <https://www.oneusefulthing.org/p/how-to-use-ai-to-do-stuff-an-opinionated> (20 min for reading) and reflect on the following questions: (1 hr total)
  + What are some of the benefits and challenges of using AI tools for writing, creating images, and learning?
  + How would you evaluate the reliability and accuracy of the information generated by AI tools? What steps would you take to verify or correct it?
* Think about your content then choose a tiny chunk that is normally difficult for your students to understand that could use an asset to enhance learning.
* Now, have a look at this lesson plan prompt example <https://platform.openai.com/examples/default-lesson-plan-writer>
* Open ChatGPT and write a prompt for your chosen content that is informed by the lesson plan example above. Experiment with prompts to create an excellent lesson plan for your tiny bit of content. Reflect on the following questions:
  + How did using ChatGPT impact your lesson planning process, and what specific benefits or challenges did you encounter? How did it complement or differ from traditional lesson planning approaches?
* Using text-to-image generative AI tools, create new media assets for a powerpoint presentation or an interactive learning activity. Some ideas might include things like:
  + Infographics
  + Diagrams
  + Illustrations
  + Mind maps
  + Photographs
  + Drawings
  + Digital art
  + Culturally inclusive images

**You can see a custom curated list of text-to-image tools with their respective access links here: Getting Started with AI: Annotated Tools List.docx**

**Option 2** LLMs (Large Language Models):

DIRECTIONS:

* Read the following article “How to Use AI to Do Stuff: An Opinionated Guide” <https://www.oneusefulthing.org/p/how-to-use-ai-to-do-stuff-an-opinionated> (20 min) and reflect on the following questions: (1 hr)
  + What are some of the benefits and challenges of using AI tools for writing, creating images, and learning?
  + How would you evaluate the reliability and accuracy of the information generated by AI tools? What steps would you take to verify or correct it?
* Think about your content then choose a tiny chunk that is normally difficult for your students to understand and could use an asset to enhance learning.
* Now, have a look at this lesson plan prompt example <https://platform.openai.com/examples/default-lesson-plan-writer>
* Open ChatGPT and write a prompt for your chosen content that is informed by the lesson plan example above. Experiment with prompts to create an excellent lesson plan for your tiny bit of content. Reflect on the following questions:
  + How did using ChatGPT impact your lesson planning process, and what specific benefits or challenges did you encounter? How did it complement or differ from traditional lesson planning approaches?
* Using an LLM of your choice (ChatGPT, Google Bard, etc.), create a new resource for use in one of your courses. Some ideas might include things like:
  + Interactive student activity:
    - Breakout group jigsaw activity.
    - Directions for debate.
    - Role-play directions.
    - Direction for fishbowl.
    - Other interactive activities.
  + Annotated list of references relating to specific course content.
  + Rubrics.
  + Assessment questions or quizzes.
  + Directions for using unfamiliar technology.
  + Hypothetical case studies.
  + High level questions for your content.
  + Key concepts of your content.

**You can see a custom curated list of LLMs with their respective access links here: Getting Started with AI: Annotated Tools List.docx**

**SUBMITTING YOUR ASSIGNMENT (Option 1 or Option 2):**

Once your selected option is complete, post your product in the Capstone Assignment submission forum with a title that clearly indicates the topic of your content. A very clear title will help each of us find resources that may be useful in other courses. Reflect on your key learning from your process. Write and post 3 of your key learnings in the forum.

In our synchronous Session 5, please be ready to present your products and explain your process to each other.

**REMEMBER YOUR GOAL**

Your goal is to create resources or assets for one of your courses using appropriate generative AI tools. You will all share your assets and process in the last synchronous session.

**UP NEXT**

In our last synchronous session, we know you will have a lot to say about the questions below. So have a good think before we see you online together!

* How can AI enhance your teaching and learning experience? What are some benefits and challenges of using AI in education?
* How do you evaluate the quality and reliability of AI-generated content? What are some ethical and social implications of using AI as a source of information or knowledge?
* How do you balance the use of AI with human interaction and collaboration in your classroom? What are some skills and competencies that you need to develop to work effectively with AI?

**GOING DOWN THE RABBIT HOLE**

On-boarding your AI Intern

<https://www.oneusefulthing.org/p/on-boarding-your-ai-intern>

Why All Our Classes Suddenly Became AI Classes

<https://hbsp.harvard.edu/inspiring-minds/why-all-our-classes-suddenly-became-ai-classes>

Assigning AI: Seven Ways of Using AI in Class <https://www.oneusefulthing.org/p/assigning-ai-seven-ways-of-using>