AI Prompt Engineering for Super-Charged Teaching

Course Syllabus

Course Description

This course will explain how AI chatbots work, how they are designed, and how to use prompt engineering to get the most out of them as an educator. Participants will be introduced to an easy-to-follow framework for prompting that enhances the output when using this powerful technology. Use cases will be demonstrated and provided as takeaways to enhance teaching practice.

This course enhances classroom teaching effectiveness and supports improved student outcomes by introducing new knowledge in prompt engineering to help educators use AI chatbots for planning, instructional design, differentiation, and efficiency— unlocking the full potential of AI tools.

Course Objectives

At the end of this course you should be able to:

1. Understand the basics of AI, what chatbots are, and the mechanics of AI chatbots.
2. Understand how AI chatbots respond to prompts, the variables in prompts, and structuring prompts to get effective output.
3. Understand how AI chatbots can be used to improve administrative efficiency for teachers.
4. Learn how to use AI Chatbots in many different ways to plan instruction.
5. Learn how to use AI chatbots to create teaching activities, differentiate work, and create assessment tasks.
6. Learn how to use AI chatbots to act as a learning assistant for students they teach and how teachers can encourage the use of chatbots to enhance learning.
7. Learn how to use plug-ins in ChatGPT, and how to use other AI chatbots to work with images and access the internet.
8. Learn about chatbot ethics, best practices, and how chatbot technology is likely to develop in the near future.

Modules

- Module 1: Introduction to AI, Chatbots, and Their Mechanics, Quiz 1
- Module 2: The Art, Science, and Framework of Prompt engineering for supporting instructional design and administrative efficiency, Quiz 2
- Module 3: Using AI chatbots to support administrative efficiency, Quiz 3

- Module 4: Diverse Use Cases of AI Chatbots to plan instruction, Quiz 4
- Module 5: Diverse Use Cases of AI Chatbots to support and enhance teaching, Quiz 5
- Module 6: The use of AI Chatbots to support and enhance learning, Quiz 6
- Module 7: Enhancing Chatbots: Plug-ins, internet access and images; Ethical Concerns, Quiz 7
- Module 8: Safe Practices and Future Trends in AI Chatbots, Quiz 8

Grading
Each quiz must be passed at an 80% or higher (three attempts allowed).

Format
This is a self-paced, asynchronous (no required live meetings) course. Throughout the PD course, you will find it helpful to take notes along the way to assist with the quizzes. Within each module, you will find reflection assessments that are not graded but will help in your journey through the course.