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Abstract

With the evolution of online nursing education, integrating innovative technologies to enhance teaching and learning experiences has become crucial. Artificial Intelligence (AI), specifically ChatGPT, presents a transformative opportunity for online nursing education. This presentation explores the potential of using ChatGPT as a teaching assistant to online nursing faculty, offering a novel approach to address challenges and enhance pedagogical practices.

Purpose

Offer faculty guidance to

- Help students use AI appropriately
- Promote critical thinking
- Provide personalized student-centered feedback

Theoretical Foundations

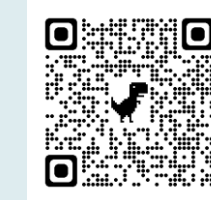
ChatGPT is a chatbot that can interact in a conversational way. It is based on the theory of artificial intelligence that uses large language models to understand and generate natural language. A language model is a mathematical function that assigns probabilities to sequences of words or symbols. ChatGPT uses a neural network architecture called transformer, which can learn from large amounts of text data and produce coherent and relevant responses

Preliminary Work

- Be familiar with University AI guidelines for AI use and for Academic Integrity
- Provide students with a link to the University AI guidelines
- Review various AI applications
 - ChatGPT 3.5, Google Gemini, Microsoft Bing (ChatGPT 4), Claude, among others

AI Use in Nursing Courses

- Create explanations, examples, analogies
- Role-playing-simulated interactions
- Create an AI tutor
- Building quizzes, tests, and lesson plans
- Help non-English speaking students
- Examples on ChatGPT *Teaching with AI guide* <https://openai.com/blog/teaching-with-ai>



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Examples of Student-Centered Responses

Prompt: Write a welcome response to a student who...

- *I understand that you have a busy schedule, juggling your studies with a demanding job in the ICU and taking care of your three children. I appreciate your dedication to advancing your education in the midst of these responsibilities*
- *Your rural setting with the lively addition of six hens and two cats sounds delightful—a perfect balance to your busy professional life. interests surely keep life interesting...*



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Example of Using a Prompt to Encourage Critical Thinking

This example creates a prompt designed to help students apply a concept to choosing a topic for their project. Below is the output from ChatGPT 3.5.

“Hello! I’m here to help you understand the concept of systems thinking. Before we dive in, could you please share what you already know about systems thinking? Your response will help me tailor my explanation to your current understanding.”

Student gives an answer, then ChatGPT responds accordingly:

“Great, thank you for sharing that! Systems thinking is indeed about looking at the parts that make up a whole and understanding how those parts interact with each other within a larger system. “

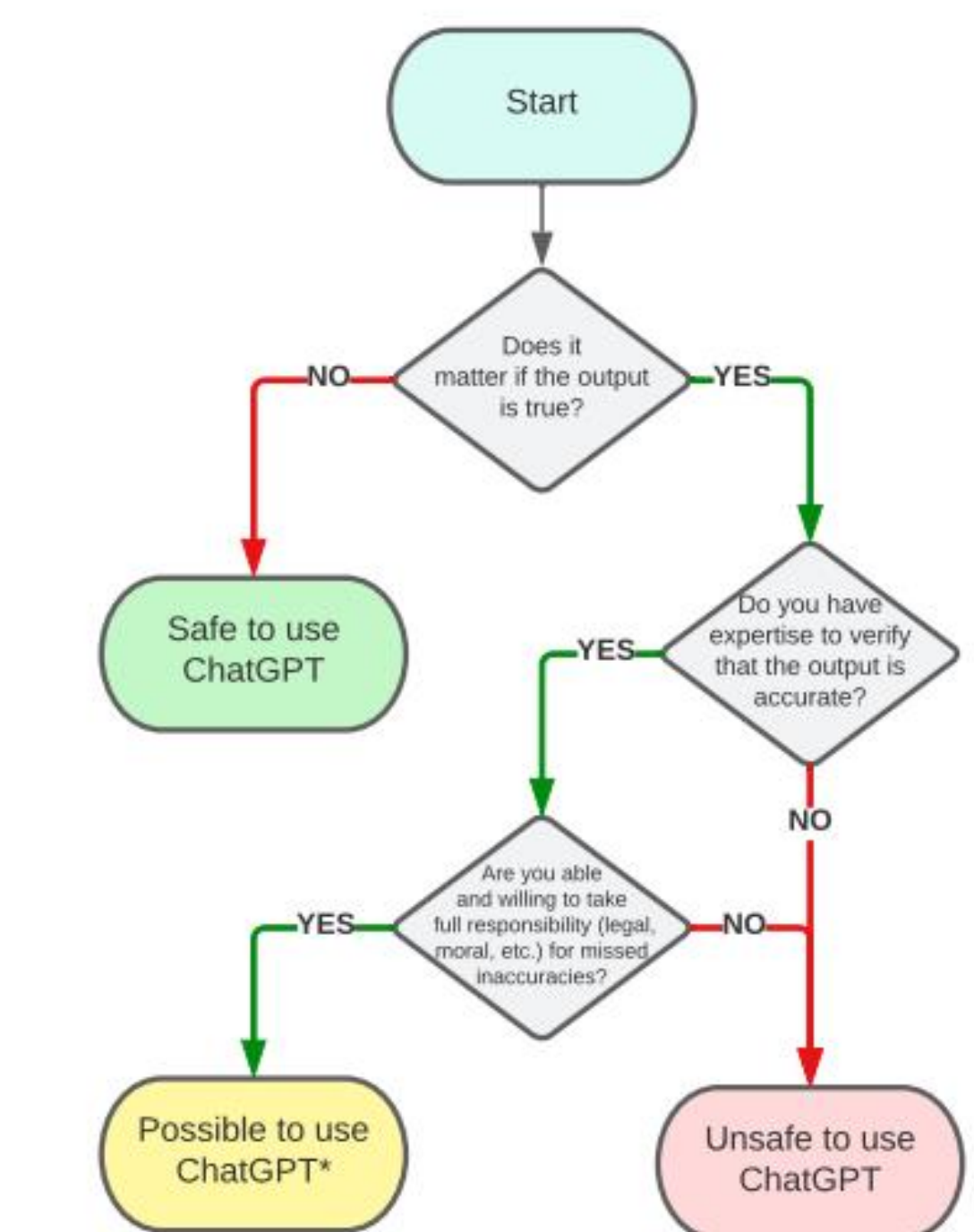
Imagine a puzzle as an analogy for systems thinking. Each piece of the puzzle represents a component or part of a system, ... influence each other.

For example, in a healthcare organization, you can use systems thinking to consider how different departments, such as nursing, administration, and patient services, all work together to provide quality patient care...Can you think of a specific gap or opportunity for enhanced services or approaches within your organization that has caught your interest?”

Decision Tree

Is it safe to use ChatGPT for your task?

Aleksandr Tiulkanov | January 19, 2023



What NOT to do

- Be careful to follow university guidelines.
- Do NOT enter student work or protected material in ChatGPT or other AI, as it could be added to their database unless it is an internal Chatbot.

Conclusion

In conclusion, this presentation prompts nurse educators to consider integrating AI chatbots as teaching assistants for enhanced instructional strategies. Utilizing AI tools enables prompt addressing of student queries, instant feedback delivery, and increased engagement in online learning.

Resources

Teaching with AI guide
<https://openai.com/blog/teaching-with-ai>
Aleksandr Tiulkanov
https://www.linkedin.com/posts/tyulkanov_a-simple-algorithm-to-decide-whether-to-use-activity-7021766139605078016-x8Q9/