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Generative AI in Medical Laboratory Science

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MLS 339 Introduction to Evidence-Based Practice ChatGPT Essay Assignment

Purpose: The purpose of this assignment is to introduce students to the generative AI tool ChatGPT, to assess the features and limitations of ChatGPT, and to assess the relevance and quality of the products generated.

This assignment is a two-part assignment. Part 1 includes listening to YouTube videos on Generative AI and ChatGPT and then utilizing ChatGPT to generate a response to an instructor provided prompt. Part 2 assesses the responses generated by ChatGPT.

This assignment helps meet the following course objective:

6. Evaluate evidence sources for applicability, quality, and accuracy.

This assignment also helps students meet the following information literacy dimensions:

- 3. Evaluate information and its sources critically
- 5. Access and use information ethically and legally

Part 1 – Generating a Response

Directions for Part 1 of the assignment (Generating a Response).

- 1. Watch the following YouTube Videos
 - a. What are Generative AI Models. This is a short video explaining how Generative AI models are designed and how they work. <u>https://www.youtube.com/watch?v=hflUstzHs9A&pp=ygUXZ2VuZXJhdGl2ZSBhaSBleHBsYWI</u> uZWQ%3D
 - b. Generative AI: what is it good for? This is a short video discussing how programs like ChatGPT work and their strengths and weaknesses. <u>https://www.youtube.com/watch?v=gCDacaohqaA&pp=ygUXZ2VuZXJhdGl2ZSBhaSBleHBsY</u> <u>WluZWQ%3D</u>
 - c. What is ChatGPT? OpenAI's Chat GPT Explained. This is a short video discussing the uses of ChatGPT. https://www.youtube.com/watch?v=o5MutYFWsM8&pp=ygUIY2hhdCBncHQ%3D
- 2. Create a free ChatGPT3.5 account at https://chat.openai.com/
 - You may want to consider creating/using a burner email to help safeguard your personal information as ChatGPT stores information.
 - Note that any technical issues with the site/your account are not resolved by UND.

MLS 339 Introduction to Evidence-Based Practice ChatGPT Essay Assignment

3. Once an account is created, the main page should look like the below screenshot.

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4. In the "Send a message" box (green arrow below), type "Write a one-page essay with citations on Medical Laboratory Science". ChatGPT will generate a response.

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- 5. Once the response is generated, copy and paste the response into a word document.
- 6. Submit the word document into the Blackboard assignment submission link titled "ChatGPT Essay Assignment".
- 7. Discussion of results will be done in the next in-class session.

Part 2 – Assessing the Response

For the purpose of providing an example assignment for the repository, a word document has been created. In my actual classroom, this part will be completed in-class utilizing Blackboard.

Directions for Part 2 of the assignment (Assessing the Response).

- 1. Re-read through the ChatGPT generated response that you submitted in Blackboard and complete the questions in the Blackboard assignment "ChatGPT Essay Assessment". (Below are the questions that will be included in the Blackboard assignment)
 - a. Does the information in the ChatGPT generated essay appear to be applicable to the prompt that was given? Explain why or why not.
 - b. Are there any sentences or passages that sound fine but are not accurate or don't make sense? Include the sentence or passage and explain why they are not accurate.
 - c. Assess the sources cited by ChatGPT.
 - i. Did ChatGPT provide source(s) as instructed?
 - 1. If not, what might be a reason why no sources were provided?
 - 2. If sources were provided, complete a search to find the source(s).
 - a. Did the information cited in the ChatGPT response actually come from those sources? Explain
 - d. What is your overall impression of the essay written by ChatGPT? Describe in 4-6 sentences.
- 2. In-class discussion:
 - a. In your groups, read each other's Chat GPT generated essay.
 - b. Compare each of your ChatGPT generated essays:
 - i. What information is similar?
 - ii. What is notable about the linguistics of each essay?