AI Gallery Homepage

Building a Chatbot to Practice Interviewing a Patient

Course Subject:	NRSG 4604 Community and Public Health Nursing
Student Level:	Undergraduate (Prelicensure)
Number of Students:	53
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What the Instructor Did

With the help of a co-op student (Yash Pankhania—funded by the Provost's Office), the instructor created AI SimBot, a virtual simulation bot that allows students to practice a specific substance abuse screening protocol and develop their communication skills.

Purpose

The goal of this project was to develop a tool that would allow students to not just learn about the screening protocol but to improve their skills and confidence by engaging in the back-and-forth dialogue that takes place during patient screening, counseling and referral to treatment. The tool allowed students to practice as often as they liked, whenever they liked, and to receive personalized feedback based on their performance.

Assessment

After engaging with the simulated patient, students submitted a chat transcript as evidence of their interactions. They then answered written reflection questions designed to reinforce their learning. A rubric was leveraged in evaluating their work.

Faculty Reflections

I took very seriously that this chatbot would be "interacting" with my students about potentially very sensitive subjects without my supervision. I needed to feel confident that it was not only capable of the task but would also do no harm. So, as we developed it, we had a small group of graduate nursing students act as a "red team" that tried to dupe, thwart, break, or misdirect the bot, and use their feedback to improve the bot. Based on student reviews from my course this semester, we had very positive results! I also gained some ideas on how to improve the bot's performance and make it a more believable "adolescent" for next semester.

Step-by-Step Instructor Directions for Generating the Case Studies

NOTE: This requires a ChatGPT 4o subscription. You will need to create a web interface (or find some other way) to give your students access to your custom GPT.

Step 1	This requires ChatGPT 40, so you need to create an account if you don't have one, and then log in.
Step 2	Choose "Explore GPTs" and then click +Create. You will be guided through entering the prompts, any conversation starters that you want it to use, and uploading the knowledge that you want it to work from.
Step 3	Practice with the bot, adjusting prompts as you need to. Enlist colleagues to help you test it and encourage them to try to "break" it so that you can learn how to prevent that from happening with your students.
Step 4	Create new or adjust existing instruction and materials to best support the students' learning while they use the bot. Also, determine what you want them to turn in for accountability, deeper learning, and feedback: for example, the chat transcript and reflection questions about whatever you want to be sure they focus on.

Related Materials

- <u>Web Interface</u> this custom interface allowed students to access AI SimBot without a ChatGPT 40 subscription. (Note: if the SimBot has not been used recently you may be prompted to "wake it up")
- <u>CRAFFT Assessment and Reflection Rubric</u> Rubric used to evaluate students' interactions with the AI SimBot and their reflections upon it.