



AI IN ACTION

Build a Custom Chatbot

Teaching Breakout Group

Tiffany Kim, RN, PhD
Lance Eaton, PhD



Resource Link

<https://bit.ly/NU-AI-Action>



Agenda or Table of Contents

1

Session Introduction

2

Examples & How To Build a Customize Chat Bot

3

Apply/Practice doing the step by step process

4

Learner Feedback and Q&A

5

Poll & NU AI Program Promo Video



AI SimBot:

Building communication skills with a virtual patient

Introduction: What is AI SimBot?

- A custom virtual patient chatbot for students to practice communication skills
- Provides practice opportunities beyond limited simulation lab time
- Key benefits:
 - Realistic, conversational interaction
 - 24/7 availability
 - Immediate individualized feedback



Jordan Taylor
17yo non-binary student
Visiting the office for a routine sports physical today

The Problem & Solution

- Traditional simulation challenges
 - Limited availability of standardized patient actors
 - High costs for each simulation session
 - Scheduling logistical challenges
- Impact on learning
 - Reduced practice opportunities
 - Anxiety about rare practice sessions
 - Limited feedback on communication skills
 - Difficulty mastering sensitive conversations

AI SimBot: A new tool in the toolbox



Implementation Highlights

- Learning Context

- Integrated into prelicensure public/community health nursing course
- Focuses on substance use screening with the CRAFFT tool
- Part of broader curriculum on harm reduction practices

- Technical Framework

- Custom-built using OpenAI's API
 - 4.o for Jordan chatbot
 - o3-mini-high for feedback
- Simple website for easy student access (Streamlit)

- Educational Design

- Structured patient scenario
- Built-in assessment rubric for immediate feedback
- Reflection component for deeper learning

Access Code

Access Code

Press Enter to submit form

Login

Content Warning

⚠ This simulation might evoke strong emotions or may be distressing for individuals with personal experiences related to substance use or addiction. If you feel overwhelmed by the content, please discontinue the simulation and reach out to your course faculty, or schedule an appointment with [Northeastern University Health & Counseling Services](#). If you or someone you know is struggling with substance use or addiction, support is available.

Login | AI SimBot

Welcome to Dr. Kim's AI SimBot.

This AI-powered simulation helps you practice advanced communication skills for screening substance use in adolescent patients. You can use this tool anytime, anywhere, to engage in realistic scenarios that prepare you for real-world clinical settings. My goal is to enhance your learning experience and build your confidence and competence in nursing practice. Let's get started!

Scenario

I'll be Jordan, a 17-year-old, non-binary student visiting your outpatient clinic for a physical exam needed for school sports participation. You'll act as the nurse, administering the CRAFFT tool and providing brief counseling and referral to treatment if necessary.

Instructions

- When we're finished talking, click the 'End Session' button, and I'll provide you with expert feedback on your therapeutic communication style and use of the CRAFFT tool.
- Be sure to click the 'Download Transcript' button to get a copy of our conversation, as you'll need it to complete the assignment in Canvas.
- When you're ready to begin, enter your password and click 'Login' to test your microphone and speaker.



Possibilities and Pathways Forward

Technical Reality Check:

- Custom-built using OpenAI's API
- Requires web development for interface
- Needs detailed prompt engineering
- Not an "out-of-the-box" solution

Supportive Resources Available:

- Step-by-step documentation on GitHub <https://aisimbot.github.io>
- Growing community of practice

AI SimBot Acknowledgements:

- [Yash Pankhania](#)
- NU Office of Provost
- NU Office of the Chancellor

Creating a Text-Based Conversational Bot with Claude

Create a project

What are you working on?

What are you trying to achieve?

Visibility

 Northeastern University
Public projects are disabled by your organization

 Private
Only invited members can view and use this project

- Log in to Claude.ai
- Select Project icon from the menu
- Select + New Project
- Name your Project
- Paste and customize your starter prompt
- Test your prompt
- Share your project

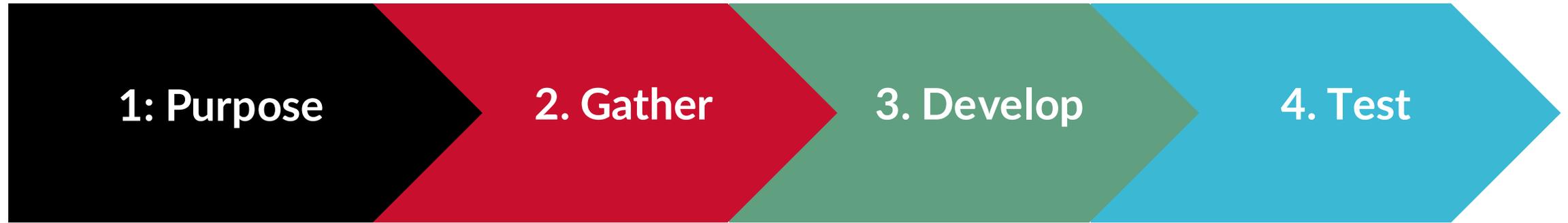


Building Your First Chat Bot

Considerations

- What is a Customize Chatbot?
 - An AI tool that maintains a particular context across conversations
 - Can often use files to further inform the chatbot's answers
- Different AI tools with different features
 - Consider the features best for your use case
- Claude Projects
 - Significant context window
 - Artifacts
 - Web search
 - Sharing features
 - Individual sharing
 - Full editing

Developing the Chatbot



Determine what might be a use case for a bot in your teaching

Relevant documents and context to help the AI tool provide stronger responses

Create AI bot Instructions that explain how it should act

Try out the chatbot and refine instructions, context, and support materials accordingly.



EXAMPLE:

Building a chatbot for universal design for learning

Your turn!

**Option #1: Create a chatbot
of your own**

**Option #2: Create a chatbot
based upon our examples**



Resource Link

<https://bit.ly/NU-AI-Action>



Share what you did!

Use the chat to discuss some of the chatbots you built!

Questions!

Use the Q&A feature to ask your questions.

We'll answer as many as we can in the time remaining.





Thank you for attending!

Check out video here!

[NU Grad Programs](#)