



Introduction to Prompt Engineering Capstone Project Education Support Chatbot

Project Brief

DSN is exploring ways to use AI for promoting access to quality education and academic support for students across Nigeria. Your team has been tasked with designing a prompt-engineered dataset that can help train a chatbot to support students in areas like study tips, time management, career guidance, exam prep, and school-life balance.

The chatbot should communicate in a respectful, culturally aware, and motivating way while upholding the highest ethical standards.

Deliverables

Tool to Use: Use ChatGPT (chat.openai.com) to generate all prompts and responses.

Submission Method:

- Copy your full ChatGPT conversation.
- Paste it into a Word processor (e.g., MS Word or Google Docs) without altering the format.
- Save the file as a PDF.
- Upload the PDF to the submission link <https://bit.ly/FAIEC25-Project-Submission>

Prompt or Series of Prompts

- Craft realistic prompts that simulate conversations with an educational support assistant.
- Prompts can address school challenges like procrastination, career choice questions, learning styles, exam anxiety, or motivation.
- Include a brief explanation of your prompting logic — why you structured each prompt the way you did.



Generated Dataset (Minimum: 10–15 examples)

- Each entry should include:
 - Instruction: What the model should do
 - Input: A student's question or academic concern
 - Output: The chatbot's response
- Format: JSONL, table, or Markdown

Ethics Reflection

- A short explanation of how your prompts:
 - Avoid bias or unrealistic expectations
 - Respect different learning backgrounds and education levels
 - Protect student privacy and promote encouragement

Example Dataset Entry

"instruction": "Answer as a study coach using a motivational tone.",

"input": "I keep failing math tests no matter how hard I try. What should I do?",

"output": "Don't give up! Many students struggle with math at first. Let's start by reviewing your study routine and identifying weak spots. You're capable — let's work through this together!"

Judging Criteria

Prompt Clarity: Prompts are realistic, well-structured, and education-oriented

Supportiveness: Responses are encouraging, constructive, and culturally mindful

Ethical Design: Ensures inclusivity, fairness, and student wellbeing

Presentation: Submission is organized, clean, and easy to follow

Prompting Logic: Teams provide reasoning behind the structure and flow of prompts

Submission Deadline: 20th of June 2025