# NexgAI AI Engineering Challenge: Build a MedMCQA-Powered Chatbot

## Objective

Design and implement an **AI chatbot** that uses the MedMCQA dataset (https://huggingface.co/datasets/openlifescienceai/medmcqa) as its **source of truth** to answer general purpose medical questions.

Your chatbot should:

- Understand user queries related to medical concepts.
- Use **LangGraph** to define a conversational flow.
- Answer based **only** on the dataset (not general knowledge).
- Be powered by an LLM of your choice (open or closed).

## Minimum Requirements

1. **Use LangGraph** to build the chatbot's logic/flow.
2. Use **any LLM** (e.g., OpenAI, HuggingFace, Claude, etc.).
3. Leverage the **MedMCQA dataset** for responses.
4. Ensure the chatbot stays grounded in the dataset content.
5. Any database of your choice

## Deliverables

- A **GitHub repo** with:
  - Full source code
  - A README.md with:
    - Setup instructions
    - How to run the chatbot
    - Justification of your design choices (LangGraph structure, LLM choice, implemented techniques)
- Clear instructions for running locally (or via notebook/Colab).

## Submission

- Submit your GitHub repo link via email  [mariya.varghese@nexgai.com](mailto:mariya.varghese@nexgai.com) (as per instructions shared).

- After code review, shortlisted candidates will be invited for a **technical interview** with the NexgAI team.


## Important Notes

- Do **not** hallucinate answers. The chatbot must respond only if confident, or gracefully decline if it cannot answer based on the dataset.

- Make sure your LLM and tools comply with **ethical AI** and **privacy standards**.