

MAI 475– Large Language Model
IV MSAIM
12-08-2025

Regular lab Question

Lab Exercise 8: To implement a domain-specific chatbot using Langchain.

Objectives

- 1. Understand the architecture and workflow of LangChain for building LLM-based applications.**
- 2. Implement a domain-specific knowledge base for a chatbot.**
- 3. Enable multilingual support for responses and queries.**
- 4. Integrate retrieval-augmented generation (RAG) for accurate domain responses.**
- 5. Deploy the chatbot as a simple web or CLI interface.**

NB: No marks will be credited for the pipeline implementation.

Program Evaluation Rubrics

Model Selection and Implementation	6 Marks
Timely Submission	2 Marks
Viva	2 Marks

General Instructions

- The file you have to save with your name, last 3 digits of register number and program number “Anto_501_Lab1”.
- The implemented code you have to download and upload to the Google Classroom in the given scheduled time.