

# AI-Chatbot Simplifying Study Abroad Processes in Nepal

## Objective

- Provides personalized guidance to students about universities, courses, and scholarships.
- Reduces dependency on expensive consultancy services by offering free or affordable AI-driven solutions.

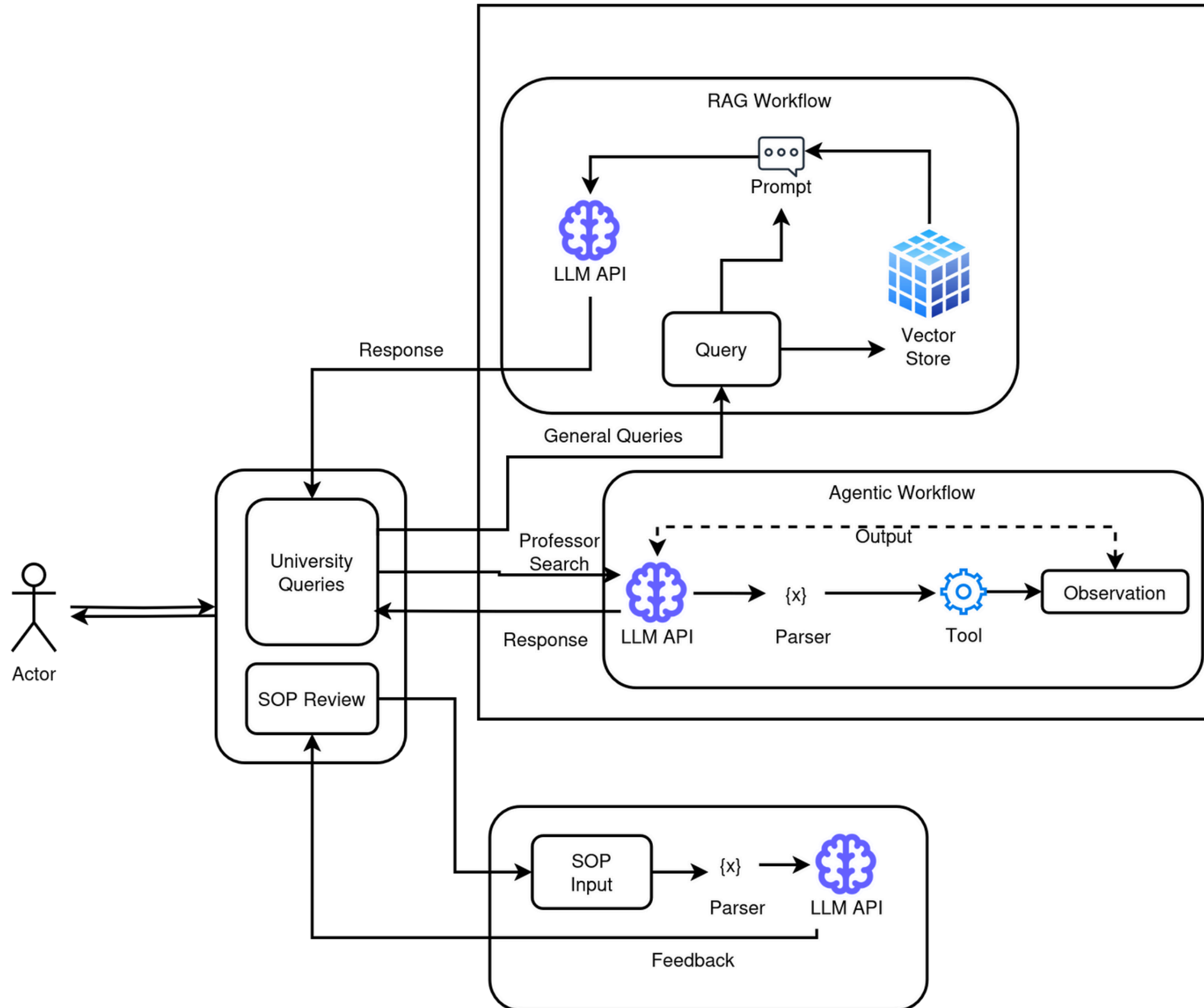
## Features

- Chat based interface for searching and querying university their courses and scholarship schemes.
- Agentic Professor Search feature.
- Document preparation tool (SOP review).

## Feasibility Study

- Focusing on a single country primarily for Graduate Studies
- Data collection through ranking websites, Kaggle datasets, university websites
- Open source LLMs such as Deepseek, frameworks such as Langchain, agentic frameworks such as CrewAI, SmolaAgents
- Retrieval Augmented Generation approach for updated and relevant information retrieval

# Proposed Methodology



## Implementation Details

- Data Collection : Scraping using Scrapy/BeautifulSoup, Existing Datasets
- Data Preprocessing : Python, Numpy, Pandas
- RAG : Open source LLM (Local or using Groq) and Embeddings, Vector DB(Pinecone, Chroma) , Langchain
- Agentic Workflow : CrewAI / SmolaAgents, LLM (Local or using Groq)
- SOP Review : Using LLMs
- Frontend : HTML, CSS, Javascript
- Backend : FastAPI or Flask
- Database : PostgreSQL and/or NoSQL DB
- Local LLM using Ollama



**THANK YOU**