

Project Task

Objective:

Develop a chatbot using any framework of your choice, and integrate it with an open-source large language model (LLM) hosted on Hugging Face.

Core Features:

1. **OCR Support:**
Extract text from various file types including .pdf, .docx, .png, etc., using Optical Character Recognition (OCR).
2. **External API Integration:**
Enable the chatbot to make and handle external API calls dynamically.
3. **Retrieval-Augmented Generation (RAG):**
Integrate RAG to allow the chatbot to access and respond using information from a custom knowledge base.
4. **File Handling:**
Automatically store all files received via chat in a local directory for persistent access.
5. **Chat Logging:**
Save all chat conversations into a database of your choice (e.g., PostgreSQL, MongoDB, SQLite).