Keerthi.N Github link:

https://github.com/keerthi19hub/Agentic_AI_Project

Pragathi.BR Github link:

https://github.com/pragathidevanga/Agentic_AI_Project

Date: 17 – 12 – 2025   Day: Wednesday

Today's Progress Report

Today, we focused on finalizing and justifying the technology choices used in our Agentic AI project.

The following points were documented today:

Reason for choosing Ollama (Local LLM):

Ollama was selected because it supports offline execution, is open-source and free, and allows the project to work without continuous internet access. It is lightweight and suitable for building a student-friendly Agentic AI MVP. It also ensures data privacy since all processing happens locally.

Why other LLMs were not chosen:

Cloud-based models like OpenAI, Gemini, and HuggingFace require internet access, paid APIs, or cloud deployment, which does not meet our project goal of an offline-capable system. ChatGPT cannot be directly used as a backend model.

Reason for choosing SQL (MySQL / SQLite) database:

SQL was chosen because the project data (students, subjects, tasks, schedules) is structured and relational. SQL databases provide data consistency, easy querying, and reliable storage, which is ideal for task tracking and scheduling.

Why NoSQL or file-based storage was not used:

NoSQL databases are unnecessary for simple structured data, and file-based storage like JSON or Excel makes it difficult to manage relationships and automation.

Overall, today's work was concentrated on technology justification and documentation, ensuring the selected tools align with the project's offline, lightweight, and student-focused requirements.