Keerthi.N Github link:

https://github.com/keerthi19hub/Agentic_AI_Project

Pragathi.BR Github link:

https://github.com/pragathidevanga/Agentic_AI_Project

Date: 19 – 12 – 2025 Day: Friday

Today's Progress Report

Backend Development

Implemented Flask backend for generating adaptive study plans.

Created generate_schedule() function to dynamically generate study slots based on:

- Subject difficulty (Hard, Medium, Easy)
- Study hours input by student
- Automatic short breaks after each study slot
- Fixed overlapping time issues using datetime and timedelta.

Frontend Integration

Connected index.html and script.js with backend API using fetch.

Displayed:

- Adaptive study plan
- Reason for each slot (e.g., "Hard subject needs more focus", "Prevents fatigue")
- Added multiple subjects: Mathematics, Data Structures, Operating Systems, DBMS, English.

Online LLM Integration

Used Google Gemini PRP as online LLM reference to support intelligent decision-making for adaptive scheduling.

LLM used to suggest study adjustments based on:

- Student’s daily performance
- Subject difficulty

- Missed sessions

Features Implemented

- Adaptive time allocation for hard/easy subjects.
- Intelligent short breaks (10 min) after each study slot.
- Dynamic schedule updates based on user input (daily hours, goals).

Technical Details

Backend: Python, Flask, Flask-CORS

Frontend: HTML, CSS, JavaScript

Data handling: JSON via API calls

Online LLM: Google Gemini PRP

- Implement “Completed / Not Completed” feedback system for each study slot.
- Adjust study plan automatically based on feedback.
- Add more detailed schedule visualization in frontend.
- Prepare final demo for project presentation.