Project Report

Title of Project:

Ai study planner

Name of the Innovator:

vaishnavi

Start Date:

5-2-26

End Date:

11-2-26

Day 1: Empathise & Define

Step 1: Understanding the Need

Which problem am I trying to solve?

student difficulty to understand any concept and easily learn any topic and maintain life and study perfectly

Who is affected by this problem?

students

How did I find out about this?

Online Research

Step 2: Problem Statement

Many students struggle with managing their study time effectively due to multiple subjects, tight deadlines, and lack of proper planning. Poor time management often leads to stress, missed deadlines, and reduced academic performance. There is a need for an intelligent system that can help students organize their study schedule efficiently and prioritize tasks based on urgency and importance.

Why is this problem important to solve?

Students struggle with time management and deadline tracking, which affects their academic performance

Take-home task insights:

This project demonstrates that intelligent scheduling systems can reduce academic stress and help students achieve their goals more efficiently.

Day 2: Ideate

Step 3: List at least 5 different solutions:

1. Personalized Study Schedule Generator

2. Smart Task Prioritization

3. Progress Tracking & Performance Analysis

4. Reminder & Notification System

5. Focus & Productivity Monitoring

Step 4: My favourite solution:

Personalized Study Schedule Generator--
The system generates a customized study timetable based on:
Subjects
Deadlines
Available study hours
Difficulty level
AI automatically adjusts the plan when deadlines change.

Step 5: Why am I choosing this solution?

These solutions were selected because they directly address the main problem of poor time management, lack of organization, and academic stress among students. Each feature contributes to improving productivity, reducing stress, and enhancing academic performance.

Day 3: Prototype & Test

Step 6: What will my solution look like?

The prototype of the AI Study Planner is a web application where students enter their subjects and deadlines. The system generates a personalized study timetable and tracks progress. It includes task prioritization, reminders, and performance monitoring features.

What AI tools will I need?

Replit AI

OpenAI GPT-4 API

Selected AI tools:

1. Replit AI – For code generation and development support

2. Python (Flask Framework) – For backend development

3. HTML, CSS, JavaScript – For frontend user interface

4. OpenAI GPT API – For generating personalized study plans

5. Replit DB (or SQLite) – For storing user data and schedules

Step 7: Test - Getting Feedback

Who did I share my solution with?

tester/student

What works well:

The system successfully generated study plans, prioritized tasks correctly, stored user data properly, and displayed progress clearly. The AI responses were accurate and helpful.

What needs improvement:

Some AI suggestions need manual adjustment. The notifications and reminders could be faster and more interactive. The UI can be improved, and advanced AI features can be added in the future.

Day 4: Showcase

Step 8: Final Project Title:

AI Study Planner

1-Minute Pitch Summary:

The AI Study Planner is an intelligent web application that helps students manage their study time effectively. It generates personalized study schedules based on subjects, deadlines, and available hours, prioritizes tasks, tracks progress, and sends reminders for pending assignments and exams. By using AI, it reduces stress, improves productivity, and helps students achieve better academic performance. This system is simple, user-friendly, and designed to make study planning smarter and more efficient.

Step 9: Reflections

What did I enjoy the most?

I enjoyed designing the AI-powered study schedule feature the most. It was exciting to see how AI could generate personalized plans based on user input. I also enjoyed building the user interface and making it simple and interactive for students. Testing the system and seeing it actually help organize tasks gave me a sense of achievement.

What was my biggest challenge?

The biggest challenges were integrating the AI model with the backend and ensuring it generated accurate, realistic study plans. Another challenge was designing the reminder and progress tracking system so it worked smoothly. Optimizing the AI responses to handle different subjects, deadlines, and study hours efficiently was also difficult but taught me a lot about problem-solving and AI implementation.

Project Link:

https://study-planner-ai--VaishnaviPariya.replit.app