Title of Project: Al Powered Tutor for Students

Name of the Innovator: Sujith L

Start Date: 13-10-2025 **End Date:** 17-10-2025

Day 1: Empathise & Define

Step 1: Understanding the Need

Problem I am trying to solve:

Many students struggle to understand concepts effectively without personalized guidance.

Traditional learning methods cannot adapt to each student's pace or learning style.

Who is affected by this problem?

Students from various educational backgrounds, especially school and college students preparing for exams, are affected as they often lack personalized attention from teachers.

How did I find out about this?

Through interviews, online research, and personal observation.

Step 2: What is the problem?

I am ideating a solution for students who need a personalized AI tutor that can adapt lessons, answer questions, and help them learn effectively at their own pace.

Why is this problem important to solve?

Personalized education improves understanding, engagement, and performance. All can help bridge the gap between limited teacher availability and growing student needs. Take-home task (Feedback from others):

After discussing with friends and teachers, I learned that many students find online materials confusing without guidance. They wanted an AI tutor that could explain concepts simply and test their understanding.

Day 2: Ideate

Step 3: Brainstorming Solutions

- Al chatbot tutor that explains subjects and clears doubts in simple language.
- Al voice assistant that answers academic questions via speech.
- Al-based quiz generator for practice tests based on student's weak areas.
- Al-powered study planner that organizes schedules and reminders.
- Al feedback analyzer that tracks progress and suggests improvement.

Step 4: My favourite solution:

An AI-powered chatbot tutor that interacts with students, answers questions, gives personalized lessons, and adapts to the learner's pace using natural language understanding.

Step 5: Why am I choosing this solution?

It is practical, accessible via mobile, and can be built using free AI tools. It offers 24/7 assistance and improves learning outcomes through interactive engagement.

Take-home task (Image of solution):

The AI tutor appears as a friendly chat interface where students type or speak questions and receive explanations, images, or examples in return.

Day 3: Prototype & Test

Step 6: Prototype – Building my first version

The prototype is a mobile-friendly chatbot that uses ChatGPT API for tutoring. It provides subject-wise explanations and short quizzes. The design includes a chat window and voice option.

Al tools needed:

ChatGPT for conversational AI, Canva AI for UI design, and Figma AI for prototype layout. AI tools finally selected:

- ChatGPT
- Canva Al
- Figma Al

Step 7: Test – Getting Feedback

Shared with:

Friends and teachers tested the chatbot prototype.

Feedback received:

■ Works well:

They liked the clear explanations, instant responses, and guiz feature.

■ Needs improvement:

Voice recognition accuracy and adding regional language support were suggested improvements.

Day 4: Showcase

Step 8: Presenting my Innovation

Final Project Title: Al Powered Tutor for Students

Key points of presentation:

Project Title: AI Powered Tutor for Students Problem Statement: Lack of personalized guidance for students. My Innovation: A chatbot tutor that explains, tests, and tracks learning. Feedback: Users liked its simplicity and quick responses. Impact: Makes education accessible and adaptive for all students.

Step 9: Reflections

What did I enjoy most?

I enjoyed designing and testing the chatbot because it showed how AI can make learning more interactive.

Biggest challenge:

Integrating all features smoothly and ensuring the chatbot understood complex questions correctly.