**Project Report Template**

**Title of Project:** AI-Powered Study Schedule Generator

**Name of the Innovator:** Barkavi M  
**Start Date:** 13/10/2025

**End Date: 16/10/2025**

***Day 1: Empathise & Define***

*Step 1: Understanding the Need*

Which problem am I trying to solve?

* **​​Many students struggle with procrastination and creating balanced study schedules that account for their actual time constraints and preferred learning times.**

Who is affected by this problem?

* **​Students, especially those in high school or college, who have multiple subjects, extracurricular activities, and fixed deadlines.**
* How did I find out about this? [Select whichever is applicable]
* Interviews
* Observation
* Online Research
* AI Tools

*Step 2: What is the problem?*

The problem I want to solve in **one clear sentence**​

**Students struggle to create and stick to personalized, realistic study schedules that effectively balance multiple academic demands and personal free time, leading to stress and reduced learning efficiency.**

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Why is this problem important to solve? ​

**This problem is important because poor time management directly contributes to high student stress levels and lower academic performance. Evidence suggests that personalized learning approaches, which a custom schedule facilitates, can significantly improve a student's ability to master concepts at their own speed.**

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*AI Tools you can use for Step 1 and 2:*

1. **ChatGPT**:Used to brainstorm different ways poor time management might affect a student's mental health and academic outcomes.
2. **Perplexity AI** (for research): Gather facts, stats, or examples related to the problem.

***Day 2: Ideate***

*Step 3: Brainstorming solutions*

List **at least 5 different solutions** (wild or realistic):

1. **​A rule-based chatbot (NLP) that asks a student their availability and homework list and generates a simple text schedule.**
2. ​An image recognition tool (Computer Vision) that scans handwritten notes/assignments and automatically calculates study time required. (Wild)
3. ​A simple predictive model that suggests the best time of day to study a particular subject based on historical user input (e.g., "Math: best after lunch").
4. ​A gamified AI tool that turns the study schedule into a quest log with reward points for completion.
5. ​A custom prompt-based tool using an LLM that accepts a detailed list of tasks and generates an organized schedule with time blocks and priority labels.

*Step 4: My favourite solution:*

* **​A simple, mobile-friendly AI-Powered Schedule Generator Chatbot (using a tool like Claude AI or a customized Chatbot builder) that uses conversational prompts to gather user tasks and time constraints and then generates an organized, prioritized study plan.**

*Step 5: Why am I choosing this solution?*

* **​This solution directly addresses the student's need for a personalized and flexible schedule, is achievable in a short timeframe, and utilizes accessible, free, mobile-friendly Generative AI/NLP tools, aligning with the project's foundational constraints. It is also highly relevant to the "Artificial Intelligence Fundamentals" topic**

***Day 3: Prototype & Test***

*Step 6: Prototype – Building my first version*

* What will my solution look like?
  + **​It will be a conversational interface (a chatbot) accessible on a mobile browser. The user will input their list of tasks, their total available study hours, and their preferred study times (morning/afternoon/evening). The tool will output a structured, hour-by-hour schedule assigning tasks to time slots based on the tasks' estimated difficulty/priority.**

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* What AI tools will I need to build this?
  + **​The tool needs to be free and open-source, and easily accessible on mobile. I will use a mobile-friendly LLM interface that allows custom instructions to act as the schedule generator.**

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* What AI tools I finally selected to build this solution?
  + ​Claude AI, Grok AI (or a similar tool like ChatGPT), configured with a detailed prompt (the 'AI logic') to perform the scheduling task.

**<BUILD YOUR INNOVATION> <TEST YOUR INNOVATION>**

*Step 7: Test – Getting Feedback*

* Who did I share my solution with?
  + **​I shared the generated schedule and the process (the prompt/tool) with a peer and a family member (my trainer/mentor).**
* **What feedback did I receive?**

👍 What works well:

* + The quick generation time was a major plus. The priority labels were helpful, and the schedule felt much less intimidating than doing it manually

🔧 What needs improvement:

* + **The scheduling lacked flexibility for short breaks (like 15 mins). The output needed an option to re-shuffle the plan if a task took longer than expected.**

***Day 4: Showcase***

*Step 8: Presenting my Innovation*

* Final Project Title:

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* Document key points of my presentation:

[Prompt with attachment/screenshot of your solution: “*I am ideating a solution for <enter your problem in detail> I have selected a solution which includes <enter your solution description> I tested the solution with <enter details of who tested your solution> and they gave the following feedback <enter feedback given by the testers> Generate a 1-minute pitch document with following headings: project title, problem statement, my innovation, feedback I received from users, impact of my innovation. Add the attached image in the pitch document”]*



**<SHOWCASE YOUR INNOVATION TO YOUR PEERS>**

*Step 9: Reflections*

* What did I enjoy the most during this project-based learning activity?

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* What was my biggest challenge during this project-based learning activity?

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**Take-home task**

Upload your pitch document on GitHub

*AI Tools you can use for Step 8:*

**Canva AI:** You can use this to design your pitch document. Download your pitch document as a PDF file and upload on GitHub