

# Decoding Data Science(DDS) Academy

## AI Application Building Challenge

For students (instructor review required)

## Day 1 Idea Submission Template

### Project Title:

StudyMate AI - An AI Assistant for Student's Study Planning & Concept Clarification

### Concept Summary:

StudyMate AI is an AI-powered assistant designed to help students plan their studies, understand difficult concepts, and stay consistent with learning. Many students struggle with time management, unclear topics, and lack of personalized guidance. This application aims to solve these issues by providing AI-generated study plans, simplified explanations, and quick academic support in one place.

### Target Audience:

Students (school and university level) who struggle with organizing their study schedules, understanding complex topics, and maintaining consistency in learning. This tool is especially useful for self-learners and students preparing for exams.

### Key Features:

1. AI-generated personalized study plans based on subjects and available time
2. Concept explanation in simple language with examples
3. Daily study reminders and progress tracking

### Technical Approach:

The application will be built using Python with an AI model/API for natural language processing. A simple frontend interface (web-based) will be used for user interaction. GitHub will be used for version control, and the project will be documented daily as proof-of-work.

### Expected Challenges:

One challenge may be managing accurate and relevant AI responses. This will be addressed by refining prompts and limiting the scope of responses. Time constraints during the challenge will be handled by focusing on a minimal viable product (MVP).

### **Submission Format:**

- GitHub repository with source code
- Project documentation (README)
- Short demo or explanation of the application

### **Expected Outcome:**

By the end of the challenge, the goal is to have a functional AI application that demonstrates practical AI usage, problem-solving skills, and can be showcased as a portfolio project.

### **Additional Notes (Optional):**

This project focuses on clarity, usability, and real-world student problems rather than complexity.