

# AI-BASED PERSONALIZED STUDY PLANNER

## Objective

A website that creates a customized study plan for students based on their subject difficulty, exam dates, and available time.

## Tech Stack

Frontend : HTML, CSS, JavaScript

Backend : Django/Flask

AI : TensorFlow for schedule optimization,

OpenAI : API for explanations

## Abstract

This project proposes an AI-based personalized study planner designed to optimize students' learning schedules by tailoring study plans to individual subject difficulties, exam dates, and available study time. Utilizing a robust technology stack—HTML, CSS, and JavaScript for an intuitive frontend; Django/Flask for scalable backend management; TensorFlow for schedule optimization; and the OpenAI API for generating explanatory insights—the platform aims to enhance study efficiency and academic performance. Key features include AI-generated study schedules that dynamically adjust based on user progress, an adaptive learning mechanism that personalizes study plans over time, an AI-powered chatbot to address student queries in real time, and comprehensive productivity tracking to monitor study habits and outcomes. By integrating advanced machine learning techniques with interactive web design, this project seeks to deliver a versatile tool that empowers students to manage their time effectively and achieve their educational goals.