AI Study Assistant

Tagline: Real Knowledge Base ChatGPT Style
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1. Introduction

AI Study Assistant ek aisa project hai jo user ke questions ka answer sirf uploaded files
(PDF / Notes) se deta hai.
Ye internet ya Google search ka use nahi karta.
Project ka maksad beginner-friendly aur professional knowledge base AI banana hai.

2. Features

Upload PDFs / Notes for AI reference

AI sirf uploaded content se answer deta hai

Simple and interactive Streamlit interface

Fast, professional, and accurate answers

Beginner-friendly design

3. Tech Stack

Python – Backend logic

Streamlit – Frontend user interface

LangChain – Connects AI with your documents

FAISS – Vector database for semantic search

OpenAI API – ChatGPT style answers (or free alternative)

4. How It Works

User uploads PDF / Notes

Text extraction from uploaded files

Generate embeddings from the text

Store embeddings in FAISS vector database

User asks a question

AI retrieves relevant information from vector DB

AI generates answer based on retrieved info

(Optional: Add simple workflow diagram here)

5. Installation & Setup

Install Python 3.11+

Install dependencies:

pip install streamlit langchain faiss-cpu openai pypdf

Run the app:

streamlit run app.py
6. Usage

Open the app in browser

Upload your study PDFs / Notes

Ask questions

AI answers based on uploaded content

7. Future Improvements

Support for Word / TXT files

Summarization of large documents

Export answers as PDF / Notes

8. Screenshots

Screenshot 1: Upload PDF screen

Screenshot 2: Question input & AI answer

Screenshot 3: Final output / interaction

9. References

OpenAI Documentation

LangChain Documentation

Streamlit Documentation