AI STUDY COMPANION

Intelligent study assistant built using Agentic AI principles

Integrates Notion, Google Calendar, and OpenAI

Helps students summarize notes and auto-create study plans through Telegram

PROBLEM & OBJECTIVE

Problem:
- Students waste time switching between notes and calendars
- Difficult to plan efficient study schedules before exams

Objective:
- Create an AI-driven assistant that automates note summarization and study planning
- Provide a one-command Telegram interface for easy access

SYSTEM ARCHITECTURE

Components:
- Frontend: Telegram Bot
- Backend: Python integration layer
- APIs:
  - Notion API → fetch notes
  - Google Calendar API → fetch exams
  - OpenAI API → generate summaries & plans

KEY FEATURES

- /summary → Generates short summaries from Notion notes
- /plan → Creates personalized study plans using upcoming exams
- Context-aware responses from OpenAI
- Secure credential handling via .env
- Smooth user experience through Telegram chat

TECH STACK & IMPLEMENTATION

Component	Technology
Language	Python 3.10+
AI Engine	OpenAI GPT-4o-mini
Database	Notion API
Calendar	Google Calendar API
Bot Framework	python-telegram-bot v20+
Auth	OAuth2 (Google), .env (API keys)
Logging	Python `logging`
Environment Management	`dotenv`

RESULTS & FUTURE SCOPE

Results:
- Working Telegram bot that automates note summarization and planning
- Demonstrates integration of AI with productivity tools

Future Enhancements:
- Add reminders and progress tracking
- Dashboard for visual analytics
- Voice input and multi-user customization

CONCLUSION

- Developed a real, functioning Agentic AI assistant
- Automates learning tasks using OpenAI + Notion + Google Calendar
- Scalable foundation for future AI-driven education tools

THANK YOU

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