30-Day Roadmap: AI Question & Answer Based Projects

This roadmap is designed to help you build AI-powered Question & Answer systems within 30 days. Each week focuses on small, practical milestones where you learn by building instead of only studying theory. By the end, you'll have working mini-projects that can be shown as portfolio pieces.

Week 1: Foundations & Simple Q&A;

- Day 1-2: Set up Python, install OpenAI/LangChain.
- Day 3: Learn how to take user input (questions) in Python.
- Day 4: Connect to OpenAI API and get simple answers.
- Day 5-6: Build a CLI Q&A; chatbot (ask one question, get one answer).
- Day 7: Document what you built.

Week 2: Document-based Q&A;

- Day 8: Learn how to load a text file in Python.
- Day 9-10: Split text into chunks (Text Splitter).
- Day 11: Embed text into vector database (FAISS/Chroma).
- Day 12-13: Ask a question to your document.
- Day 14: Mini project – PDF Q&A; bot.

Week 3: Multi-File & Real Data Q&A;

- Day 15: Add support for multiple documents.
- Day 16: Experiment with CSV/JSON data sources.
- Day 17-18: Build Q&A; system for your college notes.
- Day 19: Add memory (remember last few Q&As;).
- Day 20-21: Share with 2–3 friends to test.

Week 4: Deployment & Final Project

- Day 22-23: Learn Streamlit basics (UI for chatbot).
- Day 24-25: Deploy your Q&A; bot to Streamlit Cloud.
- Day 26: Add features like PDF upload.
- Day 27-28: Collect feedback from testers.
- Day 29: Refine UI/UX, fix bugs.
- Day 30: Final project showcase – AI Q&A; app live online.

■ By following this roadmap, you'll not only understand how Q&A; systems work, but also have a **working deployed app** in just 30 days. The key is: don't just read, build something every week.