

Month 7: Final Project & Portfolio

Overview & Schedule (Weeks 25-28)

Week 25: Project Ideation & Design

Day	Topic	Theory (Brief)	Practice (Brief)	Time
Day 1	Problem Selection	Read: How to write a Product Spec. Don't start coding yet.	Doc: Write a 1-page Spec. Problem, Solution, Tech Stack, User Stories.	2h
Day 2	Architecture Design	Viz: Excalidraw. Draw how your Frontend connects to Backend and Model.	Diagram: Create the system architecture diagram. Save it to your repo.	2h
Day 3	Stack Setup	Tool: Streamlit vs FastAPI. Choose Streamlit for speed.	Code: Initialize git repo. Set up `requirements.txt`. Create a 'Hello World' ...	2h

Week 26: Implementation

Day	Topic	Theory (Brief)	Practice (Brief)	Time
Day 1	Core Logic / Modeling	Focus: The AI Brain.	Code: Implement the core python class that handles the Logic (e.g., `class PD...	3h
Day 2	Backend API	Focus: Connectivity.	Code: If using Streamlit, integrate your Class into `app.py`. If FastAPI, cre...	3h
Day 3	Frontend UI	Watch: Streamlit Crash Course (20 mins).	Code: Add file uploader, chat input, and history display to your app.	3h

Week 27: Refinement & Theory

Day	Topic	Theory (Brief)	Practice (Brief)	Time
Day 1	Gap Filling	Review: Check your backlog of concepts.	Fix: Fix known bugs in your project. Add error handling (try/except).	2h
Day 2	Optimization	Concept: Latency.	Code: Add a loading spinner. Cache expensive function calls using `@st.cache_...	2h
Day 3	Deployment	Guide: Deploy Streamlit to Hugging Face Spaces.	Action: Push code to HF Spaces. Verify it works publicly.	2h

Week 28: Portfolio & Completion

Day	Topic	Theory (Brief)	Practice (Brief)	Time
Day 1	Documentation	Read: Awesome README. A good README is the difference between a project being...	Doc: Write a README.md for your Capstone. Include: Demo GIF, Tech Stack, Setu...	2h
Day 2	Showcase	Watch: How to Demo Software (10 min).	Video: Record a 2-minute Loom video walking through your AI app. Post it on L...	2h
Day 3	Final Audit & Next Steps	Read: The Roadmap (Revisited). See how far you've come.	Career: Update your Resume to include: 'Built End-to-End RAG Chatbot using La...	2h