🚀 6-Month Success Roadmap

AI Chatbots – Batch 1 (Al-Quran Academy)
Focus: Python · Chatbot Development · Web Integration · GitHub Deployment

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📅 Month-by-Month Roadmap Breakdown

🔹 Module 1: Python Mastery & Logic Building (Month 1 & 2)

Month 1: Python Basics + Logic Thinking

- Introduction to Programming

- Python Syntax, Variables, and Data Types

- If-Else Statements & Loops

- Functions, Lists, Tuples

- Real-world mini-projects (e.g., calculator, to-do app)

✅ **Quiz & Assignment at the end of the month**

Month 2: Intermediate Python

- Dictionaries & Sets

- File Handling

- Exception Handling

- Introduction to OOP (Object-Oriented Programming)

- Final Project: Text-based chatbot with basic logic

✅ **Module Test (Must Pass)**
✅ **Quiz & Assignment**

◆ **Module 2: Chatbot + Web Integration (Month 3 & 4)**

Month 3: HTML, CSS, JavaScript (Quick Overview)

- HTML: Structure of a webpage

- CSS: Styling and layout

- JavaScript: DOM manipulation + basic interactivity

- Making a simple chatbot UI (Frontend Only)

✅ **Quiz & Assignment**

Month 4: Backend-Frontend Connection

- Flask (Python web framework)

- Creating a backend API for chatbot responses

- Connecting Python chatbot with the frontend

- Deploying locally

✅ **Module Test (Must Pass)**
✅ **Quiz & Assignment**

◆ **Module 3: Real Projects + GitHub + Deployment (Month 5 & 6)**

Month 5: Final Chatbot Project (Part 1)

- Build a complete chatbot for a mock website

- Handle real user queries with pre-fed data

- Improve logic, UI & testing

- Introduction to Git and GitHub

- Uploading first project

✅ **Quiz & Assignment**

Month 6: Final Chatbot Project (Part 2)

- Finish complete project

- Host it on a free service (like Render or Vercel)

- Submit final version via GitHub

- Presentations & Portfolio guidance

✅ **Final Module Test (Must Pass)**
✅ **Final Project Submission**

🔐 Rules for Success

- **Attendance**: No more than **2 unexcused absences**.

- **Discipline**: Regular project submissions and quiz completions are mandatory.

- **Practice**: Code **every day**, even if for 30 minutes.

- **Help Each Other**: Encourage peer support, it helps retention & confidence.

- **Ask Questions**: Stay curious, never hesitate to ask.

🏁 Final Outcome – You Will Be Able To:

✅ Build a complete chatbot from scratch
✅ Integrate it into any website using your own Python backend
✅ Understand web technologies (HTML, CSS, JS)
✅ Use GitHub to share and deploy your work
✅ Create a real project for your portfolio