

# Build Your First Personal AI Chatbot

## Hands-on Workshop (Ollama + Memory)

February 2,2026



# Tools We'll Use

- **Ollama** — run LLMs locally (privacy + no API keys)
- **Python + Jupyter Notebook** — hands-on coding environment
- **Chat Messages Format** — system / user / assistant roles
- **Local Memory Store** — JSON or SQLite for personalization
- (Optional) **Streamlit** — simple web UI for the chatbot

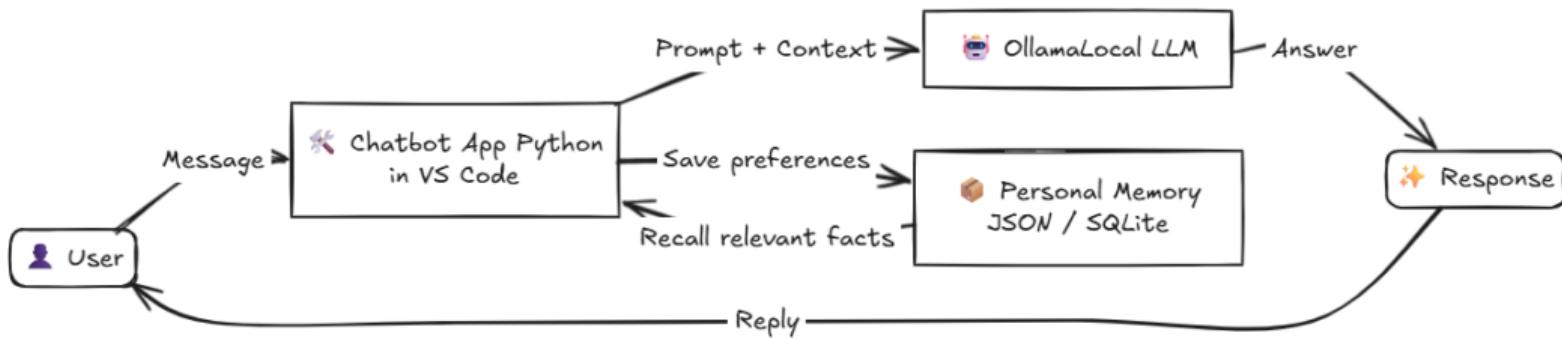
# What We Are Building

By the end, you will have:

- A working chatbot running on your laptop
- A custom assistant persona (system prompt)
- Short-term memory (conversation context)
- Long-term memory (saved preferences across sessions)

**Goal:** a personal AI assistant you can extend for your own projects.

# Architecture Overview



# Memory: Making It Personal

## Two levels of memory:

- **Short-term:** last N chat turns (context window)
- **Long-term:** saved user preferences and facts

Examples of long-term memory:

- User's name and goals
- Preferred tone (concise, friendly, detailed)
- Recurring projects or interests

**Rule:** store only stable info — never secrets.