Setting Up My Own Private Al Chatbot

Why Bother Setting Up a Personal AI?

Privacy. That's the #1 reason.

When you use a cloud-based chatbot (like ChatGPT, Gemini, etc.), your data — and metadata — is stored on external servers. But if you run your Al **locally**, nothing leaves your system. It's **yours, fully private**.

This matters when you're:

- Working on confidential projects
- Collaborating on sensitive documents
- Building internal tools
- Or just want to own your data

Tools We'll Use

- Ollama lightweight way to run LLMs locally
- LLaMA 3 the actual AI model
- Open WebUI gives your AI chatbot a clean GUI (instead of just terminal use)
- **Docker** helps run apps in isolated containers (no messy setup)

Why Use Docker?

Docker makes it **easy to run services** like Open WebUI without installing tons of dependencies or messing with your local system. You can start/stop it like flipping a switch all contained, no chaos.

Why LLMs Use GPUs

LLMs do heavy math — mainly matrix operations — which are perfect for **parallel processing**. That's where GPUs shine.

Performance Note:

- Recommended: 16GB VRAM GPU
- Below 16GB VRAM? It'll still work, but you'll notice some slowdowns.
- No GPU? It defaults to your CPU, but expect slower generation and lags in output.

The AI will still run — just not as fast or smooth.

Step-by-Step Setup

Step 1: Install Ollama

Download and Install Ollama

- Visit <u> https://ollama.ai</u>
- Download and install Ollama based on your operating system.

Once installed, open your terminal and run:

ollama run llama3

Why LLaMA 3?

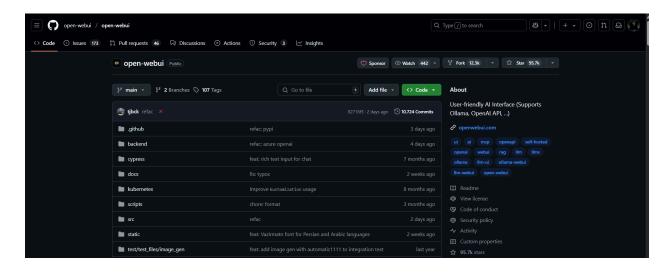
It's the latest open-source large language model (LLM), trained on massive datasets and optimized for local use. LLaMA 3.1 or 3.3 are great picks for better context understanding.

```
X
                                                                        Administrator: Windows Powe X
Windows PowerShell
Copyright (C) Microsoft Corporation. All rights reserved.
Install the latest PowerShell for new features and improvements! https://aka
.ms/PSWindows
PS C:\Users\koku> ollama run llama3
pulling manifest
pulling 6a0746a1ec1a: 100%
                                             4.7 GB
pulling 4fa551d4f938: 100%
                                              12 KB
pulling 8ab4849b038c: 100%
                                              254 B
pulling 577073ffcc6c: 100%
                                              110 B
pulling 3f8eb4da87fa: 100%
                                              485 B
verifying sha256 digest
writing manifest
success
>>> Send a message (/? for help)
```

Step 2: Set Up Open WebUI

Running AI from the terminal isn't fun. Let's make it visual.

- Head over to
 thttps://openwebui.com
- Click "Get OpenWebUI" it'll redirect to the official GitHub repo.
- OpenWebUI gives you a chat-style interface for interacting with your private AI.



Step 3: Install Docker

We use Docker to easily launch OpenWebUI with the right settings, libraries, and integrations — without breaking anything on our local system.

To get started:

- Go to <u>to https://docker.com</u> and install Docker Desktop.
- During setup, you might hit a WSL error (common on Windows). Fix it via:

Once Docker is installed and your account is ready, move on to the next step.

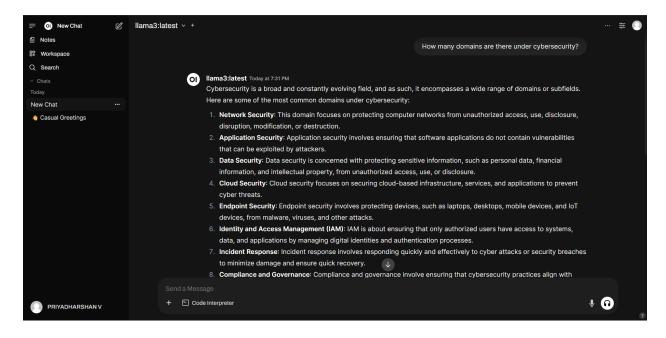
Step 4: Launch Your Private Chatbot

- Go back to the GitHub page of OpenWebUI.
- Scroll to the "Quick Start with Docker" section in the README.
- Under "Installation with Default Configuration," copy the provided Docker command and paste it into your Docker terminal.

Docker will create a container for the web UI and assign a port (e.g., localhost:3000).



Paste that into your browser — your private AI chatbot UI is live.



Final Tips

- Save your local Al link as a browser bookmark
- Try different LLMs via Ollama like 11ama2, mistral, codellama depending on your use case
- You can extend this setup with plugins or integrate it into your dev workflow

Why I Shared This

Most people don't realize they can own and control their Al.

This isn't just about privacy — it's about **independence**, **data control**, and using AI as a **power tool**, not just a toy.

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