

■■ AI & IoT Developer Setup Guide (Windows + WSL2 Ubuntu)

■ Step 1: Run Windows Setup Script

Open PowerShell as Administrator and run `windows-dev-setup.ps1` to install:

- Chocolatey package manager
- Git, Node.js, Python, Rust, .NET SDK
- VSCodium (Open Source VS Code), Obsidian, Arduino IDE
- Docker Desktop (with WSL2 backend)
- WSL2 with Ubuntu 24.04

■ Step 2: Run Ubuntu Setup Script (Inside WSL2)

After WSL2 and Ubuntu are installed, launch Ubuntu terminal and run:

```
```bash
chmod +x ubuntu-ai-iot-setup.sh
./ubuntu-ai-iot-setup.sh
```
```

This will install:

- Python, Node.js, C++, Rust, .NET SDK
- Miniconda + PyTorch + Transformers + Jupyter
- Ollama (for LLMs), PlatformIO, Node-RED, Mosquitto
- Docker CE, GitHub CLI, VSCodium, cybersecurity tools

■ Manual Steps Required

- In Docker Desktop, enable WSL2 integration for Ubuntu.
- Download LM Studio (LLM UI) from <https://lmstudio.ai/download>
- Download Obsidian from <https://obsidian.md/download> (if not already installed).

■ You're Ready!

Start developing AI and IoT apps using VSCodium, Python, Arduino, Docker, and more!

Use this command in Ubuntu to begin working in your AI environment:

```
```bash
conda activate ai-dev
```
```