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6 Open-Source AI Projects You Must Try (Agents, RAG & Fine-Tuning)

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The AI world is complex right now. Every week there's a new repo, a new framework, and a new promise that *this one* will change everything. Most don't. But a few are actually worth your time.

I was scrolling through GitHub, and six projects really caught my eye.

They cover agents, RAG, fine-tuning, and even full apps you can run on your laptop. There is nothing too complicated, just practical tools that make life easier.

Here's the list.

1. Sim AI: Drag, Drop, Done

Sim AI is basically "build your own AI agent" with Lego vibes. You get a canvas, drag blocks around, connect them, and suddenly you've got an agent workflow running.

It supports the big LLMs, different vector databases, MCP servers, and all the stuff you'd normally have to glue together manually. Here, you just plug things in visually.

Think of it as

> "What if Notion had a baby with an AI agent framework?"

And yes, it's open-source.

Build and deploy AI agent workflows in minutes.

Image by — sim studio ai

2. Transformer Lab: Tinker-Friendly LLM Playground

If you prefer to modify on your machine instead of relying on cloud services, then Transformer Lab is worth checking out.

It lets you:

- Train or fine-tune models.

- Download them with one click (no endless copying and pasting from Hugging Face).

- Build small RAG setups with a drag-and-drop interface.

- Keep logs without writing extra code.

Essentially, it's an app for LLMs that allows users to perform a variety of tasks.

The best part: everything runs locally, so your data stays yours.

I'd call it a lovely mix of playground and control panel for models.

100% Open Source Toolkit for Large Language Models: Train, Tune, Chat on your own Machine

3. RAGFlow: RAG, but Seriously Enterprise -Grade

RAGFlow is not your basic "chat with PDFs" tool. This one is built for handling gnarly, enterprise-style documents; think 100-page contracts, reports, invoices, and even multimodal data.

Why it's cool:

- It actually gives you **citations** you can trust.

- It handles text and images.

- This tool is ideal for tasks requiring extensive research.

- Already rocking 60k+ stars on GitHub.

If your company has a mountain of docs and you want an AI assistant that doesn't hallucinate, this is the kind of engine you'd reach for.

4. AutoAgent: Agents Without the Code

Ever wish you could just *describe* the agent you want and have it built for you? That's the idea behind AutoAgent.

You basically type:

> "Build me an agent that answers customer support questions and saves responses into a database."

…and AutoAgent sets it up. It supports different LLMs, comes with its own vector database, and even lets you switch between function-calling or ReAct-style interactions.

It's like talking to a developer friend who just builds stuff for you on the spot.

AutoAgent: Fully-Automated & Zero-Code LLM Agent Framework

Image by — AutoAgent

5. LLaMA-Factory: Fine-Tuning Without the Pain

Fine-tuning used to feel like wrestling with GPUs, scripts, and endless config files. LLaMA-Factory makes it… almost boringly simple.

You can:

- Fine-tune **100+ LLMs and VLMs.**

- Try out multimodal fine-tuning.

- Use PPO, DPO, or whatever optimization method you like.

- Track experiments easily.

It already has 57k+ stars, which tells you people are using it a lot.

Training a model on a dataset, such as your company's past support tickets, is a straightforward process. There is no need for custom scripts.

Image by — LLaMA-Factory

6. Anything LLM: The "One App to Rule Them All"

Finally, there's Anything LLM. If you don't want to juggle five different tools, this might be the easiest pick.

With it, you can:

- Chat with your docs.

- Build and run AI agents.

- Add multiple users.

- Feel free to configure things in detail if you wish, or simply run it as it is.

- Use it locally or in Docker.

It has almost 50k stars and feels like a solid "default AI desktop app."

AnythingLLM: The all-in-one AI app you were looking for. Chat with your docs, use AI Agents, hyper-configurable, multi-user, & no frustrating setup required.

So yeah, these six repos cover a lot of ground:

- **The Sim AI provides visual**

- **Transformer Lab:** Local LLM tinkering.

- **RAGFlow:** Serious RAG pipelines with citations.

- **AutoAgent:** Zero-code agent building.

- **LLaMA-Factory:** Easy fine-tuning for 100+ models.

- **Anything LLM:** All-in-one AI app.

If you're into AI engineering, these are worth a look.

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