Ollama

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Demo Environment

Development board: Jetson Orin series motherboard

SSD: 128G

Tutorial Scope

Motherboard model	Support
Jetson Orin NX 16GB	\checkmark
Jetson Orin NX 8GB	\checkmark
Jetson Orin Nano 8GB	√
Jetson Orin Nano 4GB	√

Ollama is an open source tool that aims to simplify the deployment and operation of large language models, allowing users to use high-quality language models in local environments.

Large Language Models (LLM)

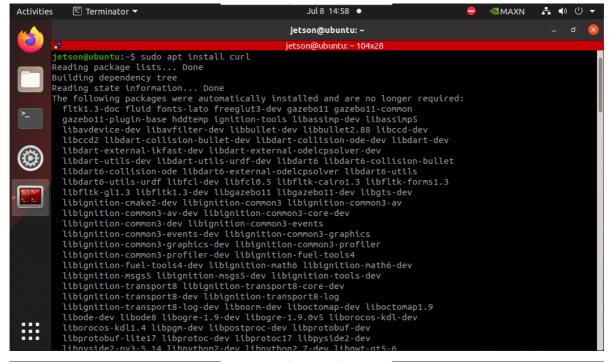
Large Language Models (LLM) are a type of advanced text generation system based on artificial intelligence technology. Its main feature is that it can learn and understand human language through large-scale training data and can generate natural and fluent text.

Ollama Installation

The tutorial demonstrates the use of scripts to install Ollama on Jetson Orin series motherboards.

Script Installation

```
sudo apt install curl
curl -fsSL https://ollama.com/install.sh | sh
```





The entire installation process takes a long time, please be patient!

```
The prompt curl: (22) The requested URL returned error: 404 appears, you can ignore it!
```

Ollama usage

Type ollama in the terminal and you will see the prompt:

Command	Purpose
ollama serve	Start ollama
ollama create	Create a model from a model file
ollama show	Show model information
ollama run	Run a model
ollama pull	Pull a model from a registry
ollama push	Push a model to a registry
ollama list	List models
ollama ps	List running models
ollama cp	Copy a model
ollama rm	Delete a model
ollama help	Get help information about any command

##

Delete service

```
sudo systemctl stop ollama
sudo systemctl disable ollama
sudo rm /etc/systemd/system/ollama.service
```

• Delete Files

```
sudo rm $(which ollama)
```

• Deleting model and service users and groups

sudo rm -r /usr/share/ollama
sudo userdel ollama
sudo groupdel ollama

References

Ollama

Official website: https://ollama.com/

GitHub: https://github.com/ollama/ollama