# Ollama

#### Ollama

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#### **Demo Environment**

Development board: Jetson Orin series motherboard

**SSD**: 128G

**Tutorial Scope** 

Motherboard Model	Supported
Jetson Orin NX 16GB	$\sqrt{}$
Jetson Orin NX 8GB	$\checkmark$
Jetson Orin Nano 8GB	$\checkmark$
Jetson Orin Nano 4GB	V

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.

## 1. Large Language Model (LLM)

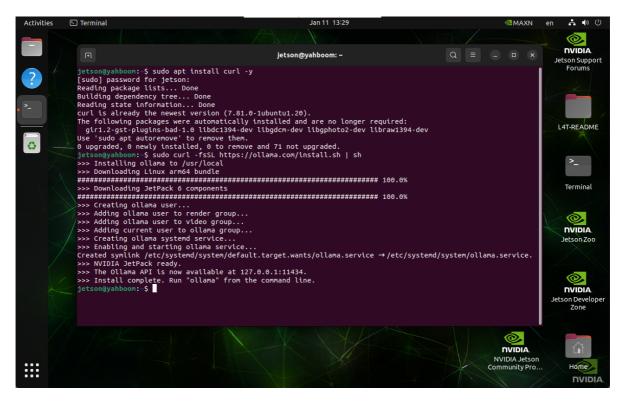
Large Language Models (LLM) are a type of advanced text generation system based on artificial intelligence technology. Its main feature is that it can learn and understand human language through large-scale training data and can generate natural and fluent text.

## 2. Ollama Installation

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

## **Script Installation**

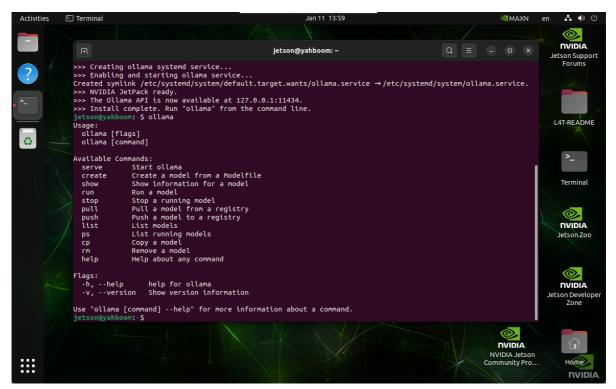
```
sudo apt install curl -y
sudo curl -fssL https://ollama.com/install.sh | sh
```



The entire installation process takes a long time, please wait patiently!

#### 3. Use Ollama

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

## 4. Ollama Uninstall

• Deleting a service

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

• Deleting 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: <a href="https://ollama.com/">https://ollama.com/</a>

GitHub: <a href="https://github.com/ollama/ollama">https://github.com/ollama/ollama</a>