1. Environments deployment

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Development Boards: Jetson Nano

SD(TF)card: 64G

It is recommended to run the 4B and below parameter models

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.

LLM

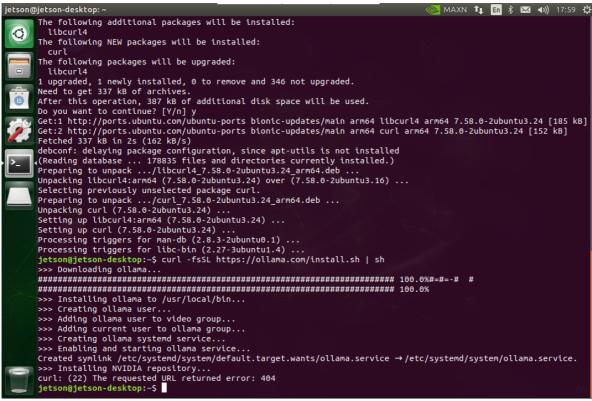
Large Language Models (LLMs) are a type of advanced text generation system based on artificial intelligence technology. Their main features are the ability to learn and understand human language through large-scale training data and to generate natural and fluent text.

Install Ollama

This course mainly demonstrates how to install Ollama on Jetson nano using scripts.

Install scripts

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



The entire installation process takes a long time, so be patient.

```
The message curl: (22) The requested URL returned error: 404 appears. You can ignore it!
```

Using Ollama

Enter ollama in the terminal to see the prompt:

Command	Effect
ollama serve	Start ollama
ollama create	Creating a model from a model file
ollama show	Display model information
ollama run	Run the model
ollama pull	Pulling models from the registry
ollama push	Pushing the model to the registry
ollama list	List models
ollama ps	List the models run
ollama cp	Copy model
ollama rm	Delete model
ollama help	Get help information about any command

Uninstall Ollama

• Delete service

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

• Delete file

sudo rm \$(which ollama)

• Delete model and service users and groups

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

References

Ollama

Website: https://ollama.com/

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