## Ollama

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**Demonstration Environment** 

**Development Board**: Jetson Nano

SD (TF) Card: 64GB

Recommended for models with 4B parameters or less

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

# Large Language Models (LLMs)

Large Language Models (LLMs) are a type of advanced text generation system based on artificial intelligence technology. Their main feature is their ability to learn and understand human language using large amounts of training data and generate natural and fluent text.

### **Ollama Installation**

This tutorial demonstrates how to install Ollama on a Jetson Nano using a script.

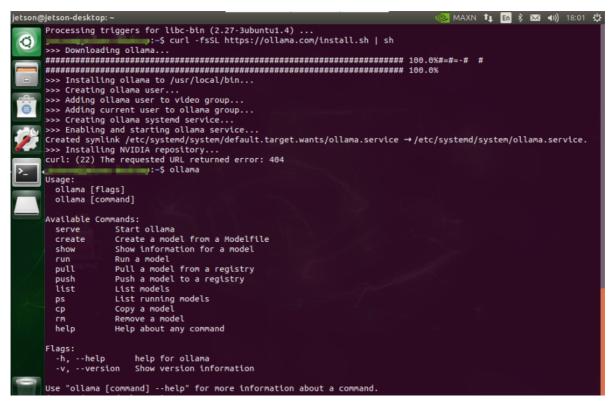
### **Script Installation**

Note: Failure to pull the Ollama file is normal. You can try multiple times or use a proxy to pull the file. You will need to search online for proxy setup instructions.

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

## **Using Ollama**

Type "ollama" in the terminal to see the following prompt:



Command	Function
ollama serve	Start Ollama
ollama create	Create a model from a model file
ollama show	Display model information
ollama run	Run a model
ollama pull	Pull a model from the registry
ollama push	Push a model to the registry
ollama list	List models
ollama ps	List running models
ollama cp	Copy a model
ollama rm	Remove a model
ollama help	Get help on any command

# **Ollama Uninstall**

• Removing the service

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

• Removing files

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

• Removing the model and service user and group

```
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>