ollama □□□□

Ollama □□□□□□

Ollama □□□□□□□□□□□□□□□□□□□□ □□□□□□ **LLM**□ □□ LLaMA□ Mistral□ Gemma □□□□□□□□□□□□□□□□□□ **Windows**□ **macOS**□ **Linux** □□□

---

1. □□ Ollama

□□ □□ 1□□□□□□□□□

Windows / macOS

1. □□ **Ollama □□** □□□□□□□□□□□□
2. □□□□□□□□□□□□□□□□
3. □□□□□□□□□□ Windows □ CMD/PowerShell□ macOS □ Terminal□□□□□

```
ollama --version
```

□□□□□□□□□ v0.1.30 □□□□□□□□□

Linux□ Ubuntu/Debian/Rocky Linux□

```
# □□ curl □□□□
curl -fsSL https://ollama.com/install.sh | sh
```

□□□□□□□□

```
ollama serve &  # □□□□□□□□□
```

□□ □□ 2□□□ Docker □□□□□□□□

```
# □□ Ollama □□
docker pull ollama/ollama

# □□□□□□□□□□□□□□
docker run -d -v ollama:/root/.ollama -p 11434:11434 --name ollama ollama/ollama
```

- `-p 11434:11434` □ Ollama □□ API □□□
- `-v ollama:/root/.ollama` □□□□□□□□□□□□□□□□□□□□

---

2. □□□

Ollama □□□□□□□□□

- `llama2` □ Meta □□□
- `mistral` □□□□□□
- `gemma` □ Google □□□□
- `phi` □□□□□□□
- `qwen` □□□□□□□□

□□ □□□□

```
ollama pull llama2  # □□ LLaMA 2
ollama pull mistral # □□ Mistral
ollama pull gemma   # □□ Google Gemma
```

⚠ □□□□□ □□□□□□□□

```
export HTTP_PROXY=http://127.0.0.1:7890  # □□□□□□□
export HTTPS_PROXY=http://127.0.0.1:7890
ollama pull llama2
```

---

3. □□□

□□ □□ 1□□□□□

```
ollama run llama2  # □□ LLaMA 2
```

□□□□□□

```
>>> □□□□□□□□□□□
```

□□□□□□□□ Ctrl+D □□

□□ □□ 2□ API □□

Ollama □□ REST API□□□□ 11434□□□□ curl □ Python □□

```
curl -X POST http://localhost:11434/api/generate -d '{
  "model": "llama2",
  "prompt": "□□□□□□ "
}'
```

Python □□ □

```
import requests

response = requests.post(
    "http://localhost:11434/api/generate",
    json={"model": "llama2", "prompt": "□□□□□□ "}
)
print(response.text)
```

---

4. □□□□

□□□□□□□□□□ Fine-tuning□□

1. [illegible] `Modelfile` [illegible]

```
FROM llama2
SYSTEM """[illegible] """
```

2. [illegible]

```
ollama create my-llama -f Modelfile
```

3. [illegible]

```
ollama run my-llama
```

---

5. [illegible]

[illegible] [illegible] 1[illegible] `ollama` [illegible]

- **Windows**[illegible] `PATH` [illegible]
- **Linux/macOS**[illegible]

```
export PATH=$PATH:/usr/local/bin
```

[illegible] [illegible] 2[illegible]

- [illegible] **1**[illegible]
- [illegible] **2**[illegible] `~/.ollama/models` [illegible] Linux/macOS[illegible] C:\Users\<[illegible]>\.ollama\models [illegible] Windows[illegible]

[illegible] [illegible] 3[illegible]

[illegible] `11434` [illegible]

```
OLLAMA_HOST=0.0.0.0:11435 ollama serve  # [illegible] 11435
```

---

6. □□□

□□ □□□

```
ollama list     # □□□□□□□□
ollama rm llama2  # □□□□
```

⚙ □□ GPU □□

Ollama □□ **NVIDIA CUDA** □ **Apple Metal** □□□

- **Linux (NVIDIA)**□□□ NVIDIA Container Toolkit□□□□

  ```
  docker run --gpus all -p 11434:11434 ollama/ollama
  ```

- **macOS (Metal)**□□□□□□□□□□□□□

---

7. □□

□□	□□□□
□□ Ollama	`curl -fsSL https://ollama.com/install.sh | sh`
□□□□	`ollama pull llama2`
□□□□	`ollama run mistral`
□□ API	`curl -X POST http://localhost:11434/api/generate`
□□□□	`ollama create my-model -f Modelfile`
□□□□□□	`ollama list`

□□□□□□□□□□□□□□□□□□□□ □□□□□□□□□□ **Ollama** □□□ □

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