### Gemma model

Gemma model

Model scale

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#### **Demonstration environment**

**Development board**: Raspberry Pi 500 (8G RAM)

**SD(TF)card**: 32G (Above 16G, the larger the capacity, the more models can be experienced)

Raspberry Pi 500 (8G RAM): Run 8B and below parameter models

Gemma is a new open model developed by Google and its DeepMind team.

#### Model scale

Model	Parameter
Gemma	2B
Gemma	7B

Raspberry Pi 500 (8G RAM): Test Gemma model with 7B parameters!

## **Got Gemma**

Using the pull command will automatically retrieve the models from the Ollama model library.

ollama pull gemma:7b

```
File Edit Tabs Help
pi@raspberrypi:~ $ ollama pull gemma:7b
pulling manifest
pulling ef3:idesafed... 100%
pulling 090736493f71... 100%
pulling 109037bec39c... 100%
pulling 050b16ef5883... 100%
pulling 052253f7852c... 100%
pulling 052253f7852c... 100%
verifying shaz66 digest
writing manifest
removing any unused layers
success
pi@raspberrypi:~ $
```

## **Run Gemma**

### **Run Gemma**

If the system does not have a running model, the system will automatically pull the Gemma 7B model and run it: **The factory image does not provide this image, you need to download it yourself!** 

ollama run gemma:7b

# **Dialogue**

Introduce yourself in Chinese

print HelloWorld in C

print HelloWorld in python

The time to reply to the question is related to the hardware configuration, please be patient.

```
pi@raspberrypi:~ Sollama run gemma:7b)

>>>> Introduce yourself in Chinese 你好!我叫模型,一个语言模型,可以帮助你完成各种文字相关的任务。请问有什么我能帮忙的吗?

>>>> print HelloWorld in C
c
dinclude <stdio.h>

int main() {
    printf("HelloWorld!\n");
    return 0;
}

>>>> print HelloWorld in python
    print("HelloWorld!")

>>>> print HelloWorld!")

>>>> print HelloWorld!")

>>>> gend a message (/? for help)
```

### **End conversation**

You can end the conversation by using the shortcut key 'Ctrl+d' or '/bye'.

## **Reference material**

Ollama

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

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

Gemma

GitHub: <a href="https://github.com/google-deepmind/gemma">https://github.com/google-deepmind/gemma</a>

Ollama model: https://ollama.com/library/gemma