Llama3

> **Demonstration environment**

Development Board : Raspberry Pi 500

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
```

Meta Llama3 is a series of advanced open source LLMs developed by the Meta AI department.

Model scale

Model	Parameter
Llama3	8B
Llama3	70B

```
Raspberry Pi 5B (8G RAM): Test Llama3 model with 8B parameters!
```

Performance performance

	Meta Llama 3 8B	Gemma 7B - It Measured	Mistral 7B Instruct Measured
MMLU 5-shot	68.4	53.3	58.4
GPQA 0-shot	34.2	21.4	26.3
HumanEval 0-shot	62.2	30.5	36.6
GSM-8K 8-shot, CoT	79.6	30.6	39.9
MATH 4-shot, CoT	30.0	12.2	11.0

	Meta Llama 3 70B	Gemini Pro 1.5 Published	Claude 3 Sonnet Published
MMLU 5-shot	82.0	81.9	79.0
GPQA 0-shot	39.5	41.5 CoT	38.5 CoT
HumanEval 0-shot	81.7	71.9	73.0
GSM-8K 8-shot, CoT	93.0	91.7 11-shot	92.3 0-shot
MATH 4-shot, CoT	50.4	58.5 Minerva prompt	40.5

Got Llama3

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

```
ollama pull llama3:8b
```
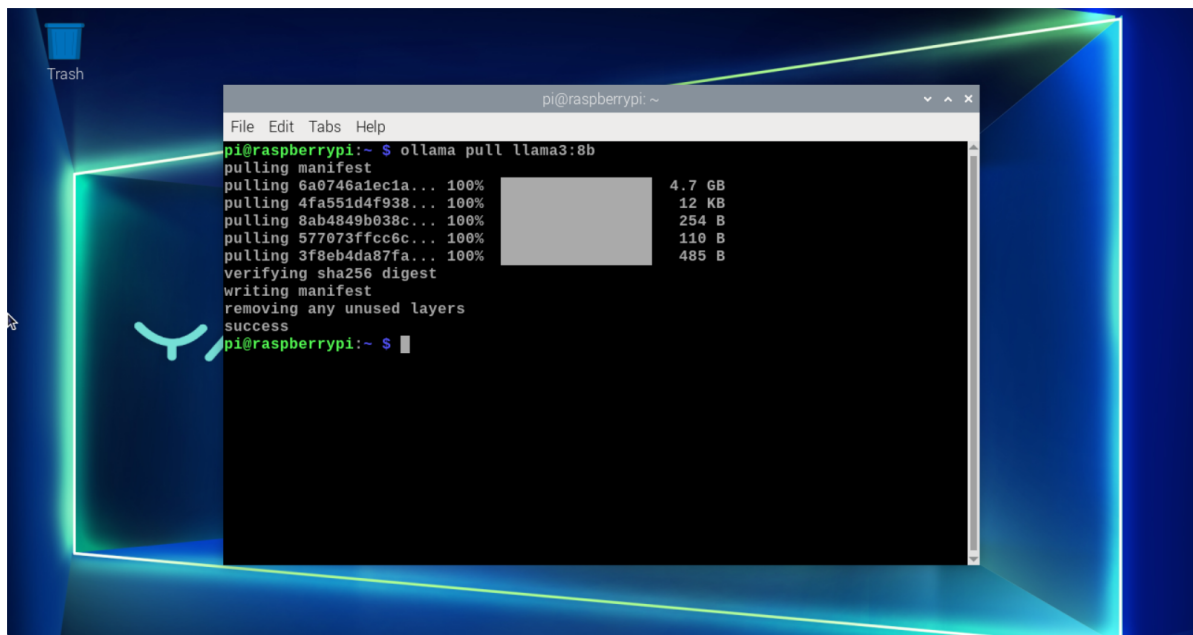

Use Llama 3

Run Llama 3

If the system does not have a running model, the system will automatically pull the Llama3 8B model and run it: **The Pi500_AI_Pure image does not provide this model!**

```
ollama run llama3:8b
```

Dialogue

> why is the sky blue?

The time to reply to the question depends on the hardware configuration, please be patient.

End conversation

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

Reference material

| Ollama

Website： https://ollama.com/

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

| Llama 3

GitHub： https://github.com/meta-llama/llama3

Ollama model : https://ollama.com/library/llama3