TinyLlama

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Demonstration environment

Development board: rdk x5 series motherboard

SD card: 64G

Tutorial application scope: Whether the motherboard can run is related to the available memory of the system. The user's own environment and the program running in the background may cause the model to fail to run

Board model	Ollama direct operation
rdk x8GB	$\sqrt{}$
rdk x5 4GB	√

1. Model scale

Model	Parameter
TinyLlama	1.1B

2. Pull TinyLlama

Using the pull command will automatically pull the model from the Ollama model library:

ollama pull tinyllama:1.1b

```
🛂 Applications 🗄 🛂 Xfce Terminal
                            Terminal - sunrise@ubuntu: ~
    Edit View Terminal
                       Tabs Help
sunrise@ubuntu:~$ ollama pull tinyllama:1.1b
pulling manifest
pulling 2af3b81862c6... 100%
                                                 637 MB
pulling af0ddbdaaa26... 100%
                                                   70 B
pulling c8472cd9daed... 100%
                                                   31 B
pulling fa956ab37b8c... 100%
                                                   98 B
pulling 6331358be52a... 100%
                                                  483 B
verifying sha256 digest
writing manifest
success
sunrise@ubuntu:~$
```

3. Use TinyLlama

3.1. Run TinyLlama

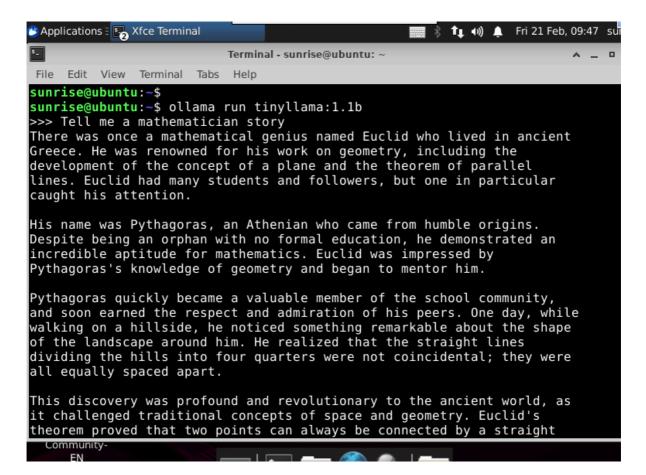
If the system does not have a running model, the system will automatically pull the TinyLlama 1.1B model and run it:

```
ollama run tinyllama:1.1b
```

3.2. Have a conversation

```
Tell me a mathematician story
```

The response time is related to the hardware configuration, please be patient!



3.3. End the conversation

Use the Ctr1+d shortcut key or /bye to end the conversation!

Terminal - sunrise@ubuntu: ~

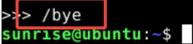
File Edit View Terminal Tabs Help

This discovery was profound and revolutionary to the ancient it challenged traditional concepts of space and geometry. En theorem proved that two points can always be connected by a line without intersecting or crossing each other, regardless distance from one another.

Pythagoras taught his students this new theory and continued it to everything he did in life. He learned to ride a horse house, and conduct trade deals with faraway lands. Eventual became an influential philosopher and political figure who many of the Greeks to follow in his footsteps.

Euclid was fascinated by Pythagoras's unwavering dedication and the way he applied his mathematical knowledge to everyda result, he spent years working with Pythagoras on practical applications of geometry, using them to solve complex proble fields like engineering and architecture.

In many ways, Euclid was more than just a brilliant mathema[.] was a teacher, mentor, and lifelong learner who made an inde impact on the world around him.



Community-

References

Ollama

Website: https://ollama.com/

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

TinyLlama

GitHub: https://github.com/jzhang38/TinyLlama

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