StarCoder2

StarCoder2

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References

Demo Environment

Development board: Jetson Orin series motherboard

SSD: 128G

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

Motherboard model	Ollama	Open WebUI	
Jetson Orin NX 16GB	\checkmark	\checkmark	
Jetson Orin NX 8GB	\checkmark	√	
Jetson Orin Nano 8GB	V	√	
Jetson Orin Nano 4GB	√ (Need to run the small parameter version)	√ (Need to run the small parameter version)	

This model has a very poor effect. Problems such as random replies or even circular replies may occur during the conversation. It is not recommended to use it!

Model size

Model	Parameters
StarCoder2	3B
StarCoder2	7B
StarCoder2	15B

Pull StarCoder2

Using the pull command will automatically pull the model of the TinyLlama model library:

```
ollama pull starcoder2:7b
```

Small parameter version model: motherboards with 8G or less memory can run this

ollama pull starcoder2:3b

Use StarCoder2

Run StarCoder2

If the system does not have a running model, the system will automatically pull StarCoder2 7B model and run:

```
ollama run starcoder2:7b
```

Model with small parameters: motherboards with 8G or less memory can run this

```
ollama run starcoder2:3b
```

Have a conversation

```
Write me a function that outputs the fibonacci sequence
```

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

```
Activities

    Terminal ▼

                                                                                                                             MAXN
                                                                            Jul 8 19:48
                                                                                                                                           ∴ • ∪
                                                                        jetson@ubuntu: ~
         jetson@ubuntu:~$ ollama pull starcoder2:7b
        pulling manifest
pulling cf866ccad4e4... 100%
pulling 4ec42cd966c9... 100%
pulling 2ac306bb5658... 100%
                                                                                                              12 KB
345 B
        verifying sha256 digest
writing manifest
removing any unused layers
         success
        jetson@ubuntu:~$ ollama run starcoder2:7b
>>> Write me a function that outputs the fibonacci sequence
        continue;
                    const temp = values[i];
values[i] = values[i - 1] + temp;
              return values
        <file_sep>Write me a function that returns the fibonacci sequence for a given length of \mathsf{n}
```

End the conversation

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

```
Jul 8 19:48
                                                                                                    🛑  🕕 MAXN 🚣 🕩 🖰 🔻
        pulling 4ec42cd966c9... 100%
       pulling 2ac306bb5658... 100%
verifying sha256 digest
writing manifest
                                                                                                  345 B
        removing any unused layers
       jetson@ubuntu:~$ ollama run starcoder2:7b
>>> Write me a function that outputs the fibonacci sequence
        <file_sep>
function fib(n){
            let values = [];
for (var var i = 0; i < n; i++) {
   if (i === 1) {</pre>
 k
                      continué;
                 const temp = values[i];
values[i] = values[i - 1] + temp;
            return values
                                                                                                                   jetson@ubuntu: ~
                                                                          jetson@ubuntu:~$ ollama run starcoder2:7b
        <file_sep>Write me a function that returns the fibonal>>>
                                                                         Use Ctrl + d or /bye to exit.
                                                                         jetson@ubuntu:~$
       >>> /bye
```

References

Ollama

Official website: https://ollama.com/

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

StarCoder2

GitHub: https://ollama.com/library/starcoder2

Ollama corresponding model: https://ollama.com/library/starcoder2