

Meta AI Codellama model

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[Model scale](#)

[Got Code Llama](#)

[Use Code Llama](#)

[Run Code Llama](#)

[Dialogue](#)

[Reference material](#)

Demonstration environment

Development Board : Raspberry Pi 5B

SD(TF)card: 64G (Above 16G, the larger the capacity, the more models can be experienced)

Raspberry Pi 5B (8G RAM): Run 8B and below parameter models

Raspberry Pi 5B (4G RAM): Run 3B and below parameter models

Code Llama is an open-source Large Language Model (LLM) specifically designed by the Meta AI department for understanding and generating code.

Model scale

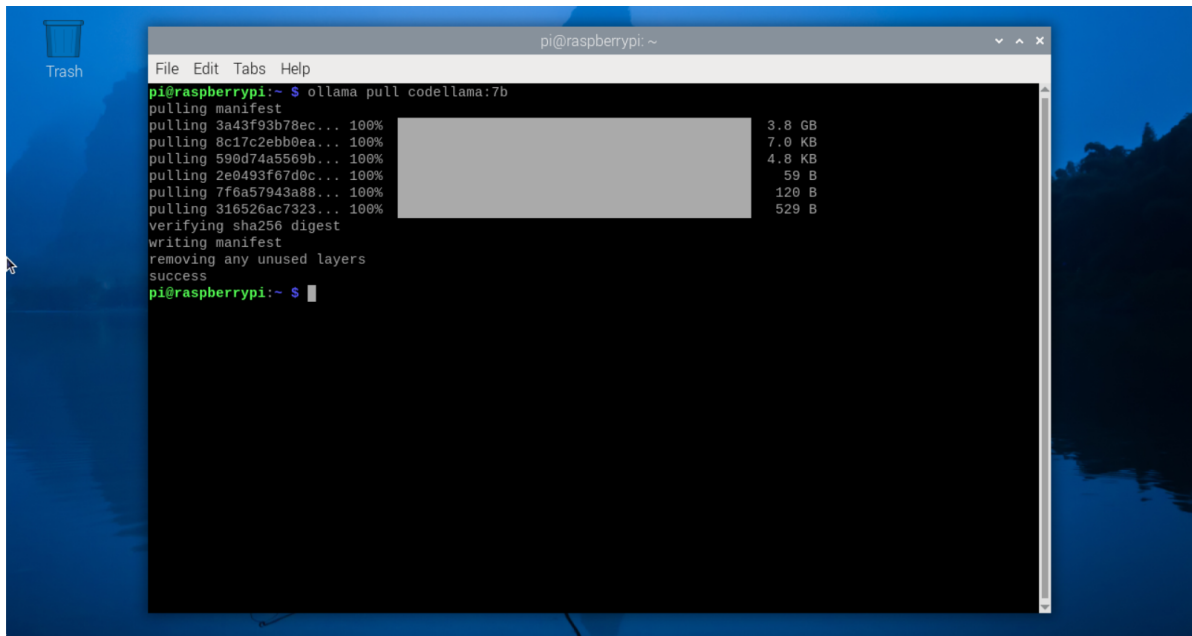
| Model | Parameter |
|------------|-----------|
| Code Llama | 7B |
| Code Llama | 13B |
| Code Llama | 34B |
| Code Llama | 70B |

Raspberry Pi 5B (8G RAM): Code Llama model testing using 7B parameters

Got Code Llama

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

```
ollama pull codellama:7b
```



Use Code Llama

Run Code Llama

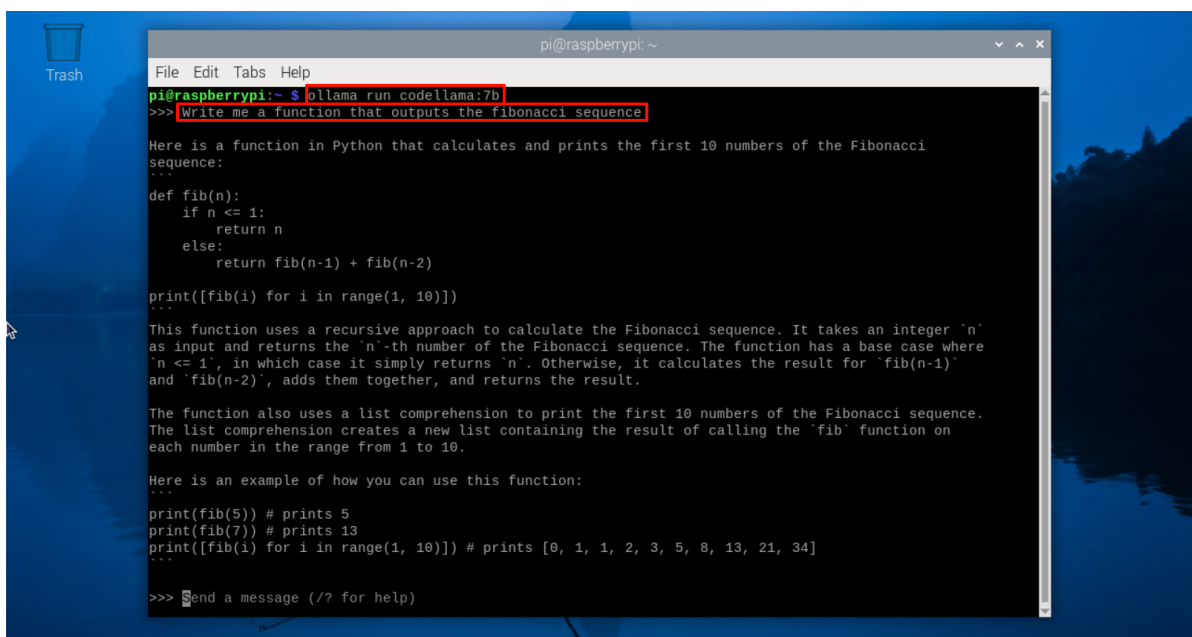
If the system does not have a running model, the system will automatically pull the Code Llama 7B model and run it.

```
ollama run codellama:7b
```

Dialogue

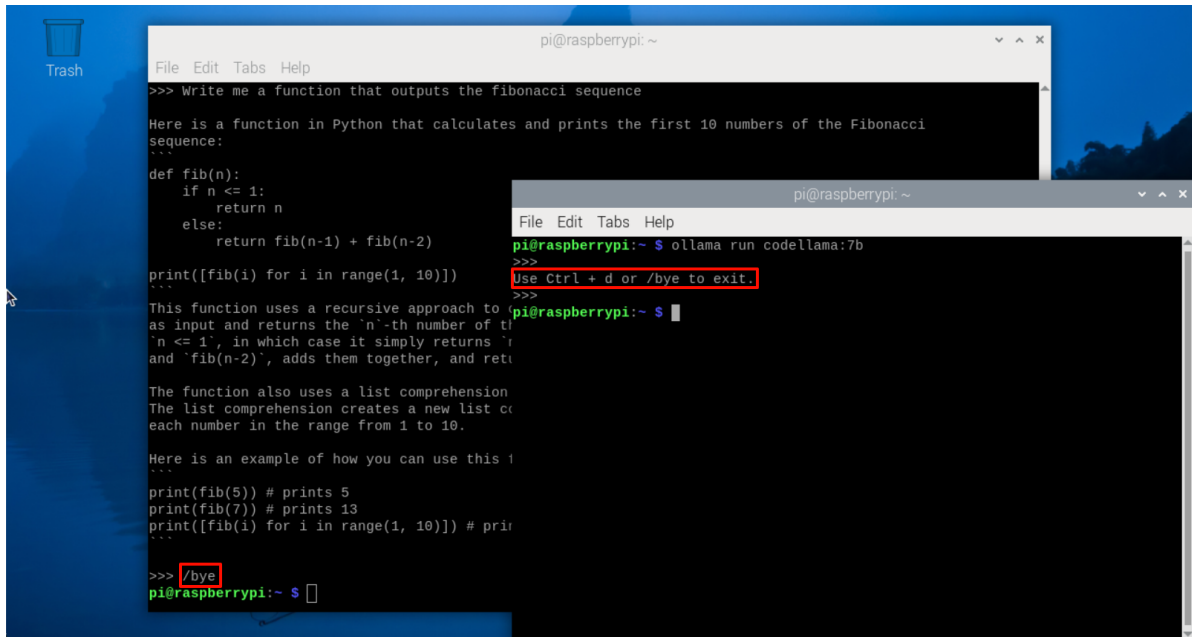
```
write me a function that outputs the fibonacci sequence
```

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



End conversation

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



The image shows two overlapping terminal windows on a Raspberry Pi desktop. The background window is a Python REPL with a prompt 'pi@raspberrypi: ~'. It contains a Python function 'fib(n)' that calculates the Fibonacci sequence, a list comprehension to print the first 10 numbers, and a prompt for the user to type '/bye'. The foreground window is also a terminal with the prompt 'pi@raspberrypi: ~'. It shows the command 'ollama run codellama:7b' and a red box highlighting the text 'Use Ctrl + d or /bye to exit.'.

```
pi@raspberrypi: ~
File Edit Tabs Help
>>> Write me a function that outputs the fibonacci sequence
Here is a function in Python that calculates and prints the first 10 numbers of the Fibonacci
sequence:
...
def fib(n):
    if n <= 1:
        return n
    else:
        return fib(n-1) + fib(n-2)
print([fib(i) for i in range(1, 10)])
...
This function uses a recursive approach to
as input and returns the 'n'-th number of th
'n <= 1', in which case it simply returns 'r
and 'fib(n-2)', adds them together, and retu
The function also uses a list comprehension
The list comprehension creates a new list co
each number in the range from 1 to 10.
Here is an example of how you can use this f
...
print(fib(5)) # prints 5
print(fib(7)) # prints 13
print([fib(i) for i in range(1, 10)]) # pri
...
>>> /bye
pi@raspberrypi:~ $

pi@raspberrypi:~ $ ollama run codellama:7b
>>>
Use Ctrl + d or /bye to exit.
pi@raspberrypi:~ $
```

Reference material

Ollama

Website: <https://ollama.com/>

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

Code Llama

Ollama Model: <https://ollama.com/library/codellama>

GitHub: <https://github.com/meta-llama/codellama>