

Setup

- Download LM Studio
 - <https://lmstudio.ai/>
- Download a *small* model
 - E.G., *meta-llma-3.1-8b-instruct*

LM Studio - 0.3.14 (Build 5)

My Models

Models DirectoryC:\Users\Philipp\lmstudio\models

Filter models... (Ctrl + F)

LLMs

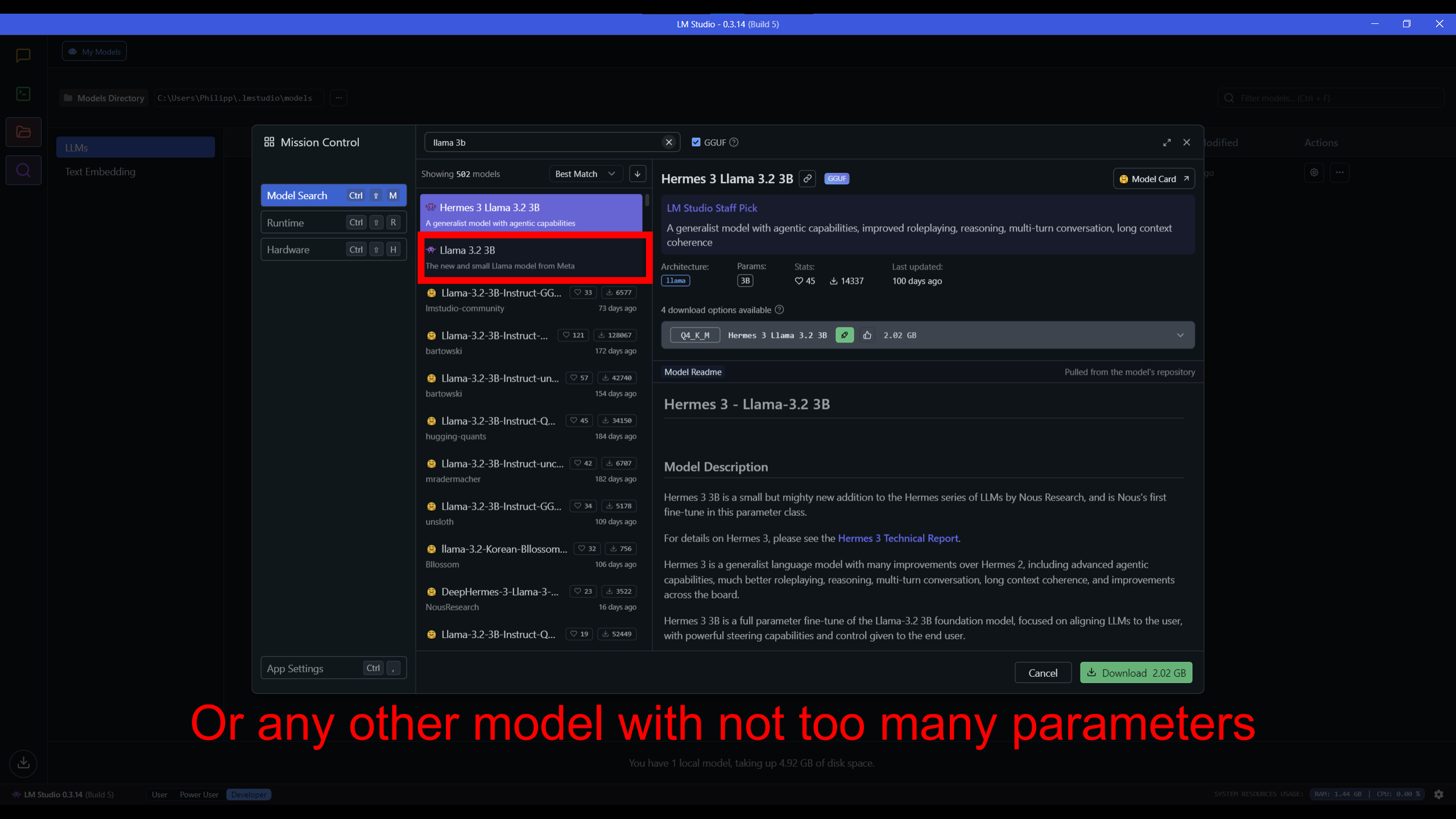
| Arch | Params | Publisher | Model | Quant | Size | Date Modified | Actions |
|-------|--------|--------------------|----------------------------|--------|---------|---------------|---------|
| llama | 8B | lmstudio-community | meta-llama-3.1-8b-instruct | Q4_K_M | 4.92 GB | 2 days ago | |

You have 1 local model, taking up 4.92 GB of disk space.

LM Studio 0.3.14 (Build 5)

UserPower UserDeveloper

SYSTEM RESOURCES USAGE: RAM: 1.44 GB | CPU: 0.00 %



My Models

Models Directory C:\Users\Philipp\lmstudio\models ...

Filter models... (Ctrl + F)

LLMs

Text Embedding

Mission Control

Model Search Ctrl ↑ M
Runtime Ctrl ↑ R
Hardware Ctrl ↑ H

llama 3b x GGUF

Showing 502 models Best Match ↓

Hermes 3 Llama 3.2 3B
A generalist model with agentic capabilities

Llama 3.2 3B
The new and small Llama model from Meta

- Llama-3.2-3B-Instruct-GG... 73 days ago
- Llama-3.2-3B-Instruct-... 172 days ago
- Llama-3.2-3B-Instruct-un... 154 days ago
- Llama-3.2-3B-Instruct-Q... 184 days ago
- Llama-3.2-3B-Instruct-unc... 182 days ago
- Llama-3.2-3B-Instruct-GG... 109 days ago
- llama-3.2-Korean-Blossom... 106 days ago
- DeepHermes-3-Llama-3-... 16 days ago
- Llama-3.2-3B-Instruct-Q... 52449

App Settings Ctrl ,

Hermes 3 Llama 3.2 3B GGUF Model Card

LM Studio Staff Pick

A generalist model with agentic capabilities, improved roleplaying, reasoning, multi-turn conversation, long context coherence

Architecture: llama Params: 3B Stats: 45 14337 Last updated: 100 days ago

4 download options available

Q4_K_M Hermes 3 Llama 3.2 3B 2.02 GB

Model Readme Pulled from the model's repository

Hermes 3 - Llama-3.2 3B

Model Description

Hermes 3 3B is a small but mighty new addition to the Hermes series of LLMs by Nous Research, and is Nous's first fine-tune in this parameter class.

For details on Hermes 3, please see the [Hermes 3 Technical Report](#).

Hermes 3 is a generalist language model with many improvements over Hermes 2, including advanced agentic capabilities, much better roleplaying, reasoning, multi-turn conversation, long context coherence, and improvements across the board.

Hermes 3 3B is a full parameter fine-tune of the Llama-3.2 3B foundation model, focused on aligning LLMs to the user, with powerful steering capabilities and control given to the end user.

Cancel Download 2.02 GB

Or any other model with not too many parameters

You have 1 local model, taking up 4.92 GB of disk space.

**Set up a
server!**

Chats

Unnamed Chat

0 tokens ...

Unnamed Chat

Appearance Clear All Duplicate

Mission Control

Model Search Ctrl ↑ M

Runtime Ctrl ↑ R

Hardware Ctrl ↑ H

App Settings

Ctrl ,

App Settings

☐ Use ↑ + ← to send message☒ Use Ctrl + R to regenerate the last message in chat

Chat AI Naming

Auto

Decides whether to create names based on generation speed

Local LLM Service (headless)

Use LM Studio's LLM server without having to keep the LM Studio application open

☒ Enable Local LLM Service ⓘ

Developer

☒ JIT models auto-evict: ensure at most 1 model is loaded via JIT at any given time (unloads previous model)☐ Show debug info blocks in chat☐ Enable model load configuration support in presets ⓘ Experimental

LM Studio Extension Packs Download Channel

Stable

☐ When applicable, separate reasoning_content and content in API responses ⓘ Experimental

Onboarding Hints

Dismissed Onboarding Hints

User (Ctrl + U)



Insert (Ctrl + I)

Send ↵

Context is 0.0% full





LM Studio



LM Runtimes



Select a model to load (Ctrl + L) ▾



Community



Quick Docs



Status: Running

⚙ Settings

Reachable at: <http://192.168.178.30:1234>

READY

1 meta-llama-3.1-8b

Server Port ⓘ 1234

Enable CORS ⓘ

Serve on Local Network ⓘ

Just-in-Time Model Loading ⓘ

Auto unload unused JIT loaded models ⓘ

Max idle TTL 60 minutes

Only Keep Last JIT Loaded Model ⓘ

Size 4.92 GB

Eject

Supported endpoints (OpenAI-like) ▾

GET /v1/models ⓘ
POST /v1/chat/completions ⓘ
POST /v1/completions ⓘ
POST /v1/embeddings ⓘ

Developer Logs

⋮ 🗑 📄 ▾

```
    "finish_reason": "length",
    "message": {
      "role": "assistant",
      "content": "A man walked into a library and asked the librarian, \"Do you have any books on Pavlov's dogs and Schrödinger's cat?\" The librarian replied, \"It rings a bell, but I'm not sure if it's\"
    }
  ],
  "usage": {
    "prompt_tokens": 40,
    "completion_tokens": 49,
    "total_tokens": 89
  },
  "stats": {},
  "system_fingerprint": "meta-llama-3.1-8b-instruct"
}
```

2025-03-28 15:03:06 [INFO] [LM STUDIO SERVER] Client disconnected. Stopping generation... (If the model is busy processing the prompt, it will finish first.)

Info

Inference

Load

Model Information ▾

Model

lmstudio-community/Meta-Llama-3.1-8B-Instruct-G...

File

Meta-Llama-3.1-8B-Instruct-Q4_K_M.gguf

Format

GGUF

Quantization

Q4_K_M

Arch

llama

Trained for Tool Use

Domain

llm

Size on disk

4.92 GB

API Usage ▾

This model's API identifier

meta-llama-3.1-8b-instruct

The local server is reachable at this address

<http://192.168.178.30:1234>

Tool Use ▾

This model is detected to have been trained for tool use

[Open quick docs](#) for more information



LM Studio 0.3.14 (Build 5)

User

Power User

Developer

SYSTEM RESOURCES USAGE:

RAM: 1.45 GB

CPU: 0.00 %



Minimize to Tray

LM Studio Server: Not Running

No Models Loaded

2



Start Server on Port 1234...

1



Load Model

Quit LM Studio

Strg + Q

HTML Example

Local AI Chat

Type your prompt here...

Send



**Why Does It Talk
Like That?**

**Now, let's try
it with a
microcontroller!**



LM Studio



LM Runtimes

Select a model to load (Ctrl + L) ▾



Community



Quick Docs

Status: Running

⚙ Settings

Reachable at: <http://192.168.178.30:1234>

READY

llm meta-llama-3.1-8b-instruct



<> cURL

Size 4.92 GB

Eject

Supported endpoints (OpenAI-like) ▾

GET /v1/models

POST /v1/chat/completions

POST /v1/completions

POST /v1/embeddings

Developer Logs



"system_fingerprint": "meta-llama-3.1-8b-instruct"

}

2025-03-31 13:27:56 [INFO] [LM STUDIO SERVER] Client disconnected. Stopping generation... (If the model is busy processing the prompt, it will finish first.)

2025-03-31 14:13:36 [INFO] [LM STUDIO SERVER] Server stopped.

2025-03-31 14:42:24 [INFO] [LM STUDIO SERVER] Success! HTTP server listening on port 1234

2025-03-31 14:42:24 [WARN] [LM STUDIO SERVER] Server accepting connections from the local network. Only use this if you know what you are doing!

2025-03-31 14:42:24 [INFO]

2025-03-31 14:42:24 [INFO] [LM STUDIO SERVER] Supported endpoints:

2025-03-31 14:42:24 [INFO] [LM STUDIO SERVER] -> GET http://192.168.178.30:1234/v1/models

2025-03-31 14:42:24 [INFO] [LM STUDIO SERVER] -> POST http://192.168.178.30:1234/v1/chat/completions

2025-03-31 14:42:24 [INFO] [LM STUDIO SERVER] -> POST http://192.168.178.30:1234/v1/completions

2025-03-31 14:42:24 [INFO] [LM STUDIO SERVER] -> POST http://192.168.178.30:1234/v1/embeddings

2025-03-31 14:42:24 [INFO]

2025-03-31 14:42:24 [INFO] [LM STUDIO SERVER] Logs are saved into C:\Users\Philipp\lmstudio\server-logs

2025-03-31 14:42:24 [INFO] [LM STUDIO SERVER] Server started.

2025-03-31 14:42:24 [INFO] [LM STUDIO SERVER] Just-in-time model loading active.

Info

Inference

Load

Model Information ▾

Model

lmstudio-community/Meta-Llama-3.1-8B-Instruct-G...

File

Meta-Llama-3.1-8B-Instruct-Q4_K_M.gguf

Format

GGUF

Quantization

Q4_K_M

Arch

llama

Trained for Tool Use

Domain

llm

Size on disk

4.92 GB

API Usage ▾

This model's API identifier

meta-llama-3.1-8b-instruct

✓ The local server is reachable at this address

<http://192.168.178.30:1234>

Tool Use ▾

This model is detected to have been trained for tool use

[Open quick docs](#) for more information



basic.py ×

```
1 import time
2
3 import network
4 import ujson
5 import urequests
6
7 # ===== USER CONFIGURABLE VARIABLES =====
8 SSID = "" # WiFi SSID
9 PASSWORD = "" # WiFi Password
10
11 # API endpoint URL
12 API_URL = "http:XXX.XXX.XXX.XX:1234/v1/chat/completions" # Replace with your local IP
13
14 # Request data
15 REQUEST_DATA = {
16     "model": "XXXX", # Replace with your model name
17     "messages": [{"role": "user", "content": "Tell me a joke!"}], # For Reference: https://platform.openai.com/docs/api-reference/responses/create
18     "max_tokens": 50
19 }
20
21 # =====
22
23 def connect_wifi():
24     wlan = network.WLAN(network.STA_IF)
25     wlan.active(True)
26     wlan.connect(SSID, PASSWORD)
27     while not wlan.isconnected():
28         time.sleep(1)
29     print("Connected to WiFi:", wlan.ifconfig())
30
31 def send_request():
32
33     headers = {
34         "Content-Type": "application/json"
35     }
36
37     try:
38         print("Sending request to:", API_URL)
```

Shell ×

Python 3.10.11 (/Users/philipp/Applications/Thonny.app/Contents/Frameworks/Python.framework/Versions/3.10/bin/python3.10)

```
>>> %cd /Users/philipp/Documents
>>> %cd '/Users/philipp/Documents/Git Repos'
>>> %cd '/Users/philipp/Documents/Git Repos/Local-LLM-Examples'
```