

# **Local Al Models with LM Studio**

Philipp Thalhammer

#### Why are local LLMs a Good Idea?

- Keep control of your data
- No (less) censorship
- Works offline
- Cheap
- Great for prototyping

#### But...

- Not as fast
- Worse performance



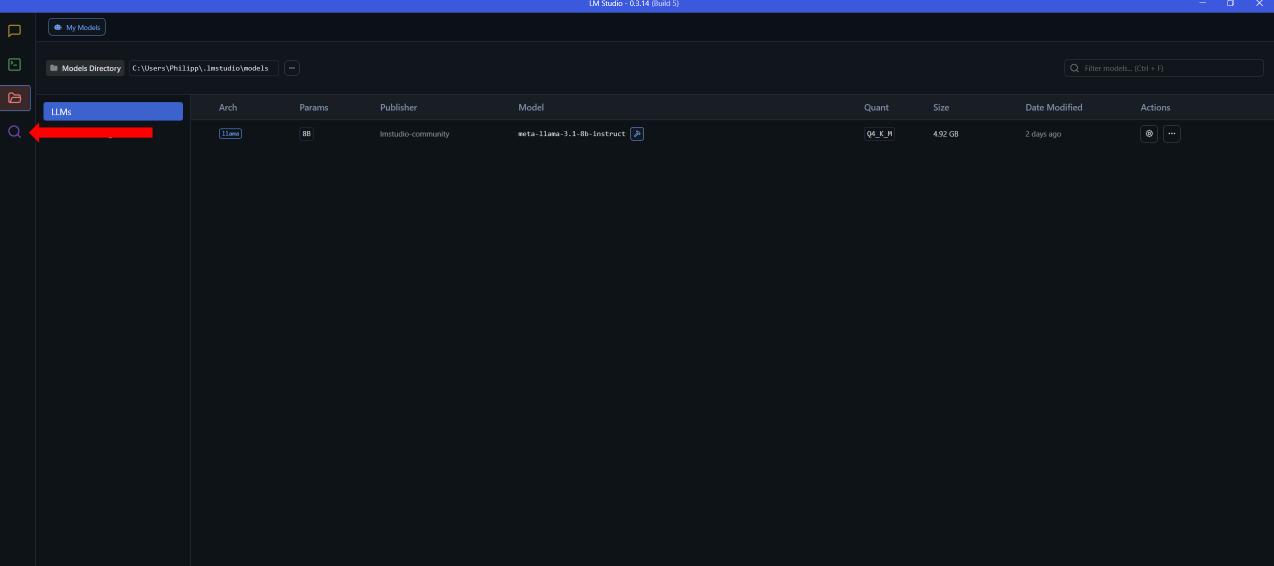
### What You (of Course) Already Did

- Download LM Studio
  - https://lmstudio.ai/

# What You (of Course) Already Did

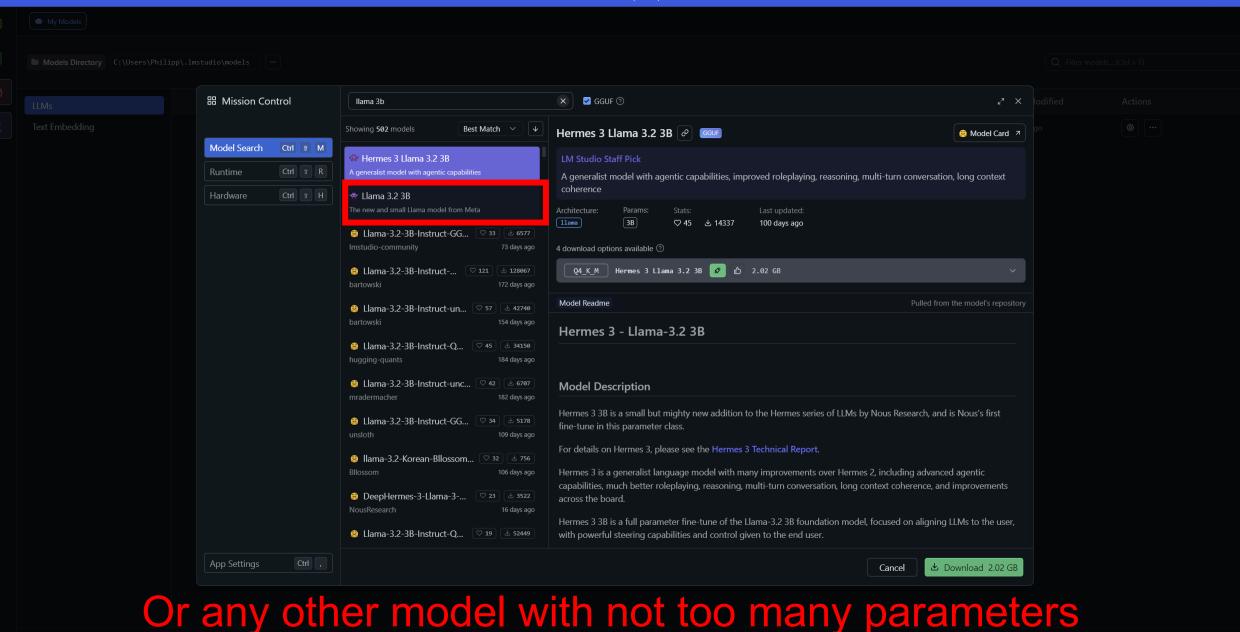
- Download a small model
  - E.G., meta-Ilma-3.1-8b-instruct





**(4)** 

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



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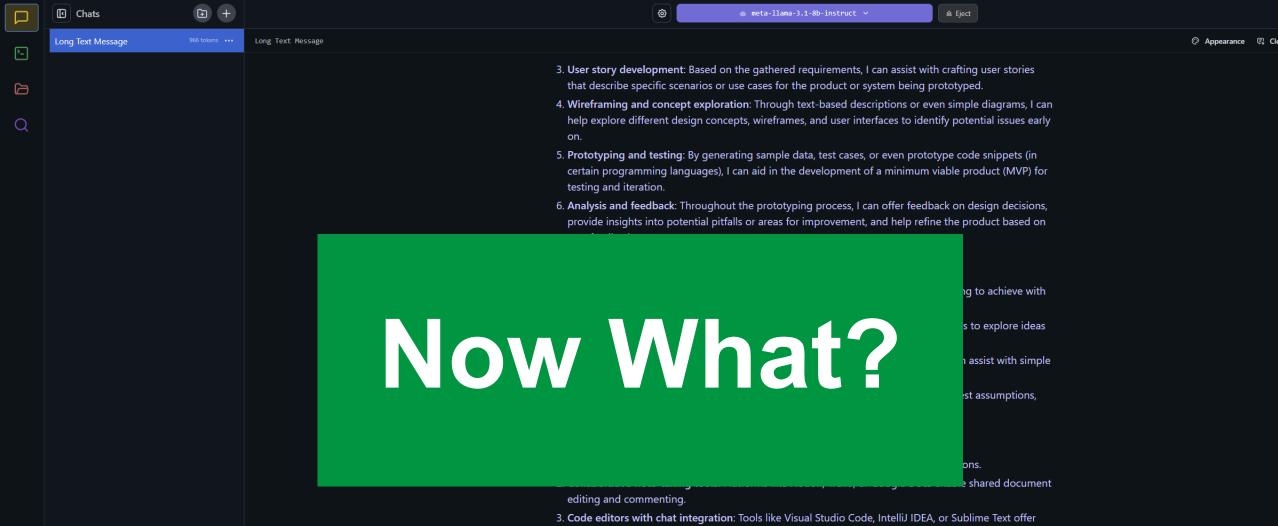
LM Studio 0.3.14 (Buil

Power User Develo

SYSTEM RESOURCES USAGE:

1.44 GB | CPU

CPU: 0.00



built-in chat functionality for seamless collaboration.

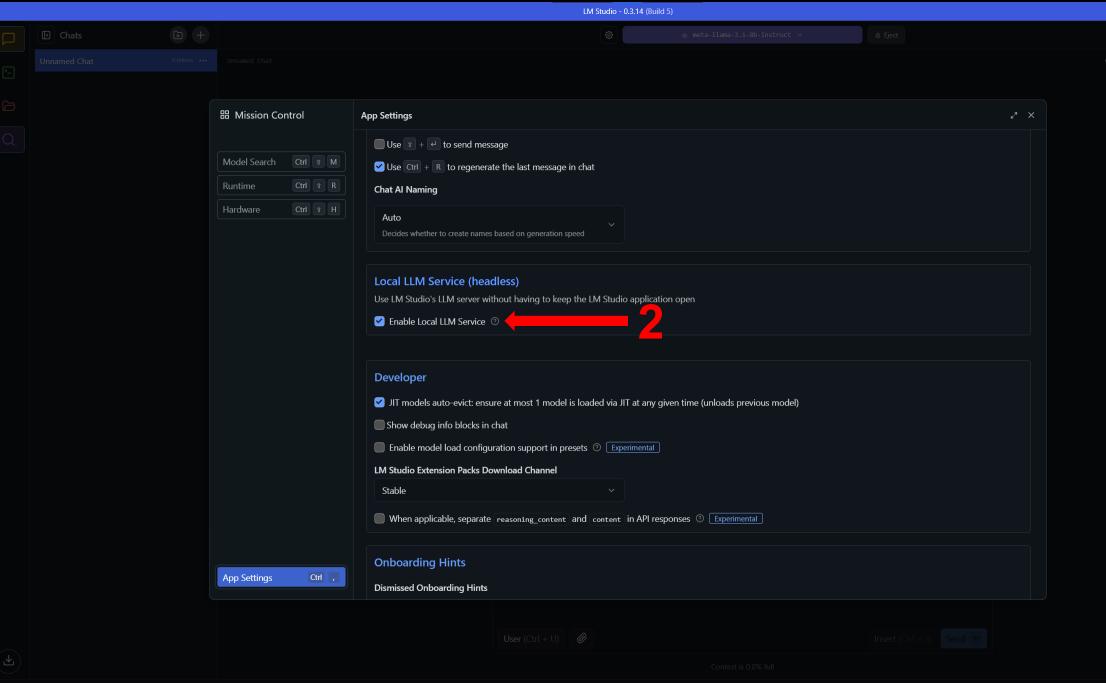
By combining these tools and best practices, you can effectively leverage me as a Large Language Model to

Type a message and press Enter to send ... User (Ctrl + U)

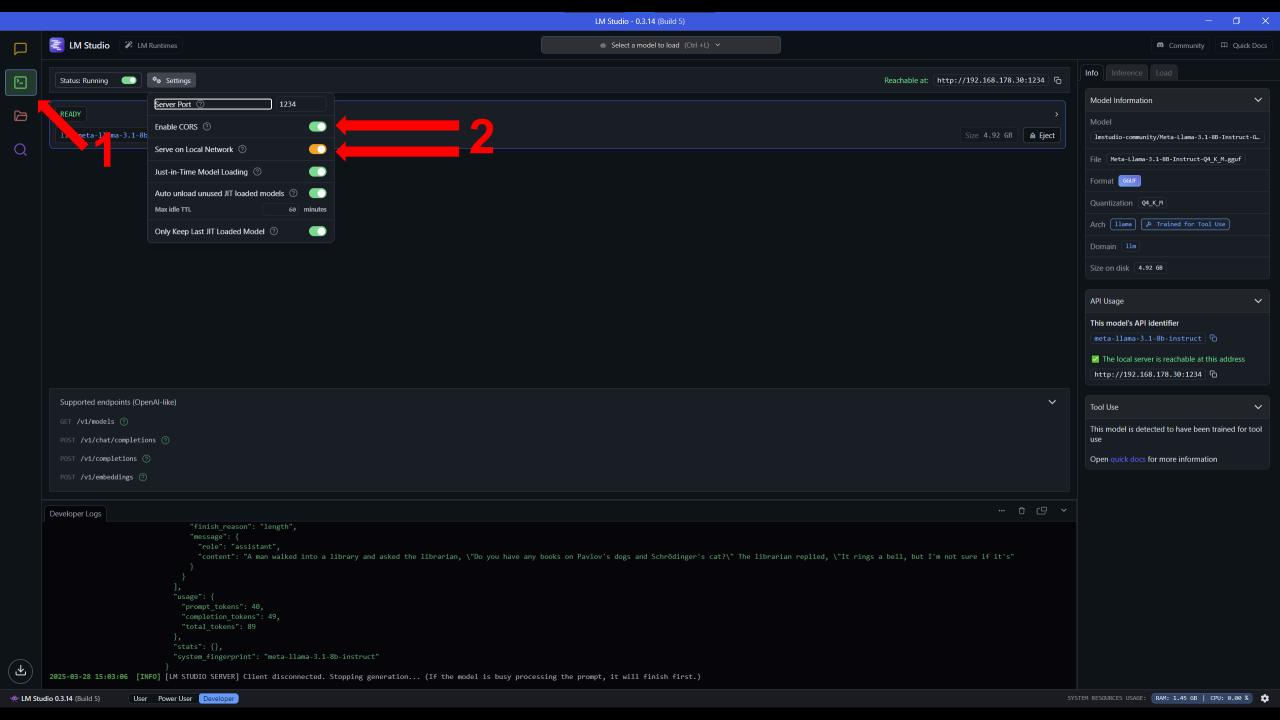


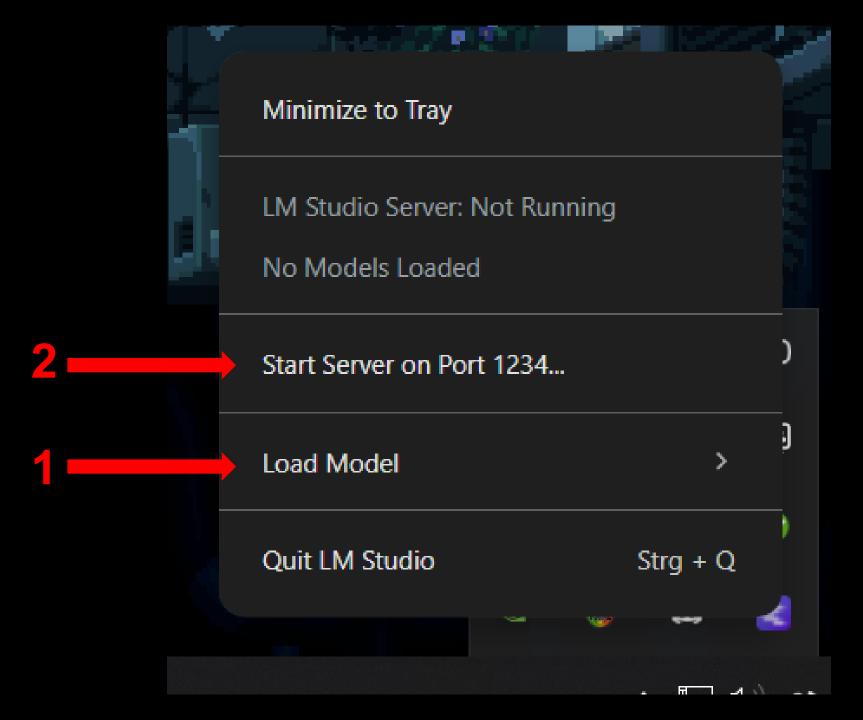
SYSTEM RESOURCES USAGE: RAM: 1.45 GB - LM Studio 0.3.14 (Build 5) User Power User Developer

# Let's set up a server!

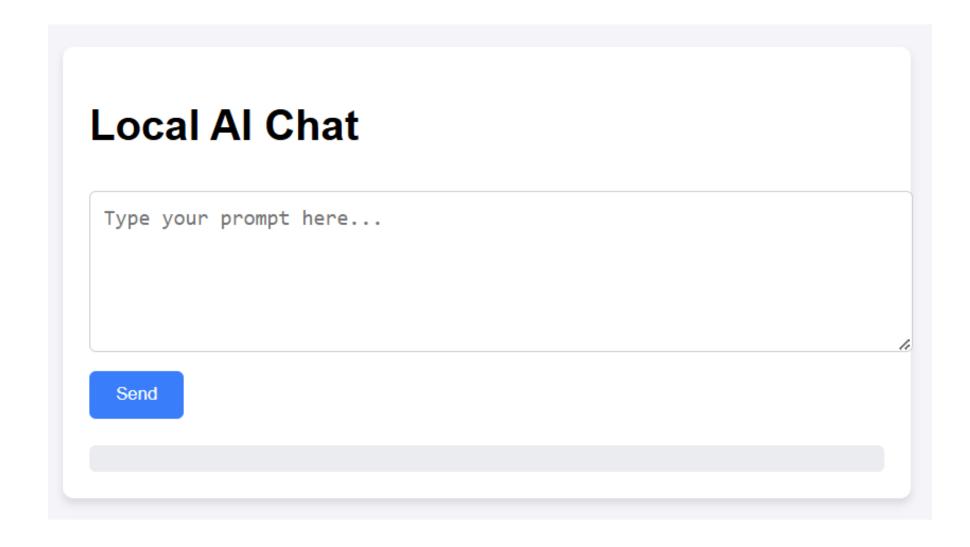


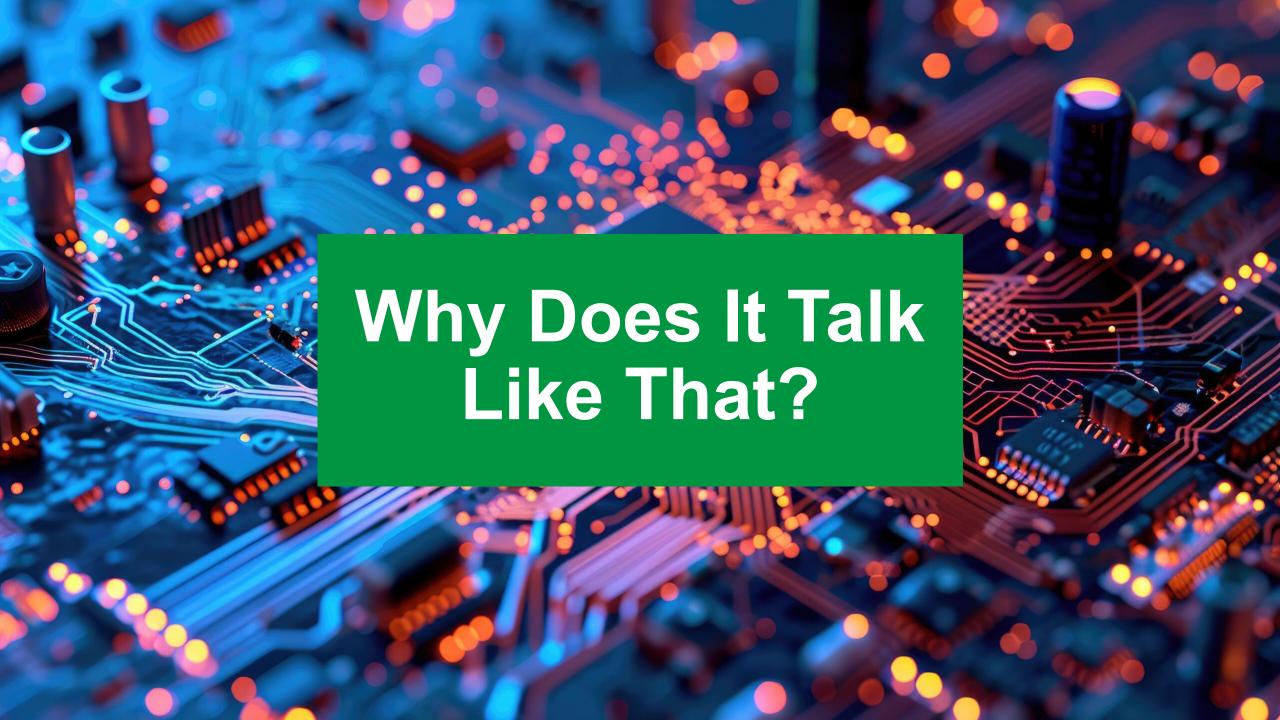
SYSTEM RESOURCES USAGE: RAM: 1.44 GB

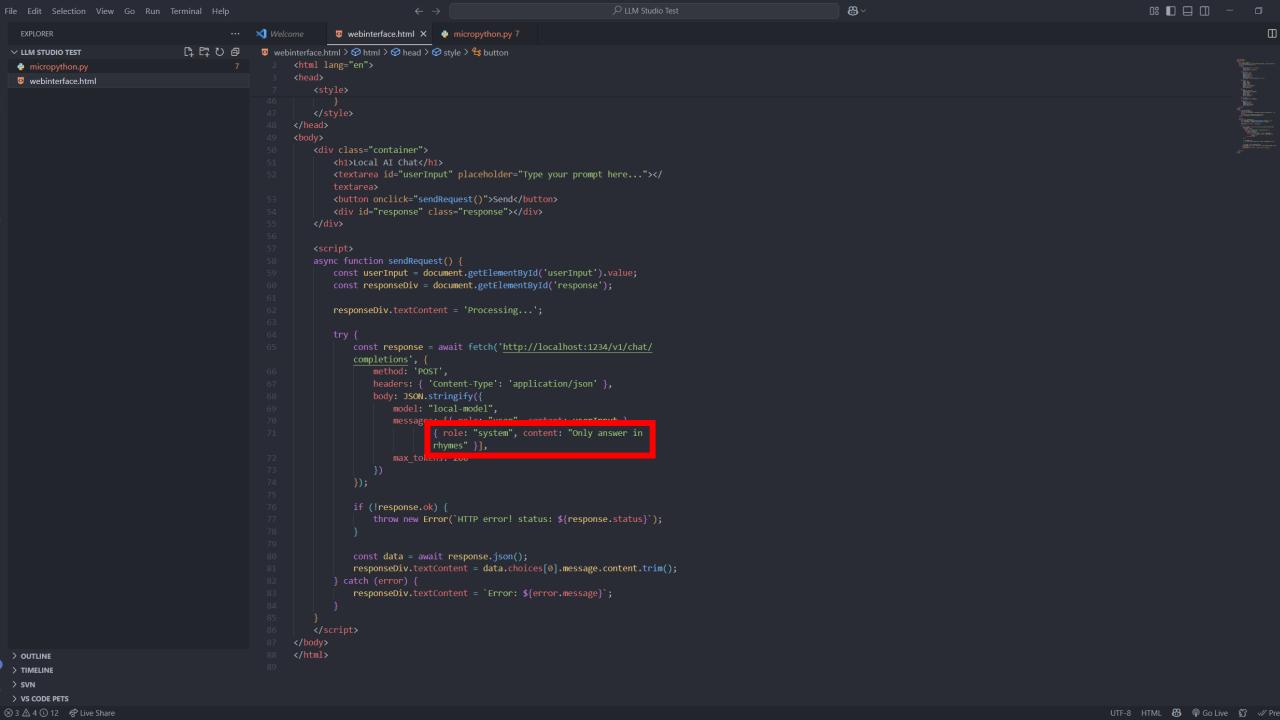




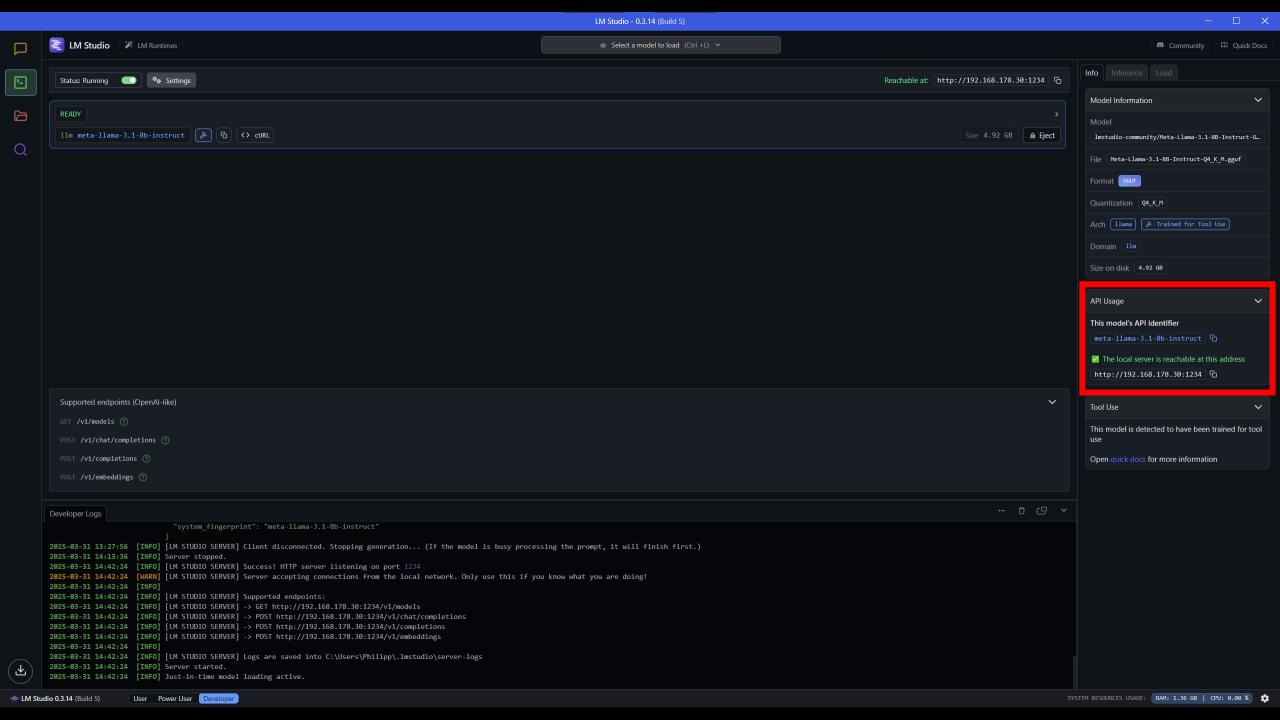
# **HTML Example**

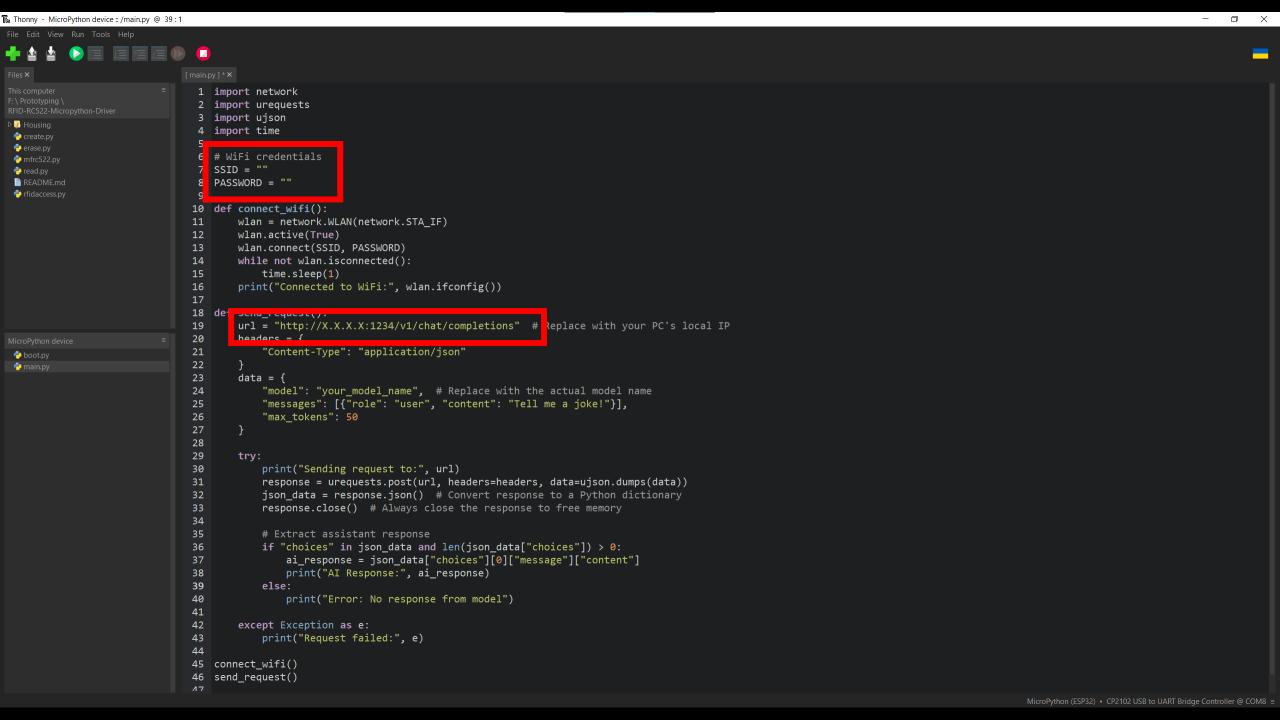






# Now, let's try it with a microcontroller





#### Resources

https://github.com/Phlipinator/Local-LLM-Examples



#### Conclusion

#### **Questions?**

#### Contact

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