DC-ROMA RISC-V Mainboard II AI Model User Guide (Ubuntu AI Image)

Document Properties		
Document version	V1.0	
Latest release date	Oct 28, 2025	
Applicable product model	DC-ROMA RISC-V Mainboard II for Framework Laptop 13	
Operating system version	Ubuntu 24.04	
Document target audience	Users holding the DC-ROMA RISC-V Mainboard II series products	
Document overview	This document applies to users of the factory-installed image system or those who download the image from: http://120.92.155.32:8082/artifactory/virtOS/fml13v03- eswin/15019-ubuntu-24.04-desktop-grub-sdcard-Al.zip	

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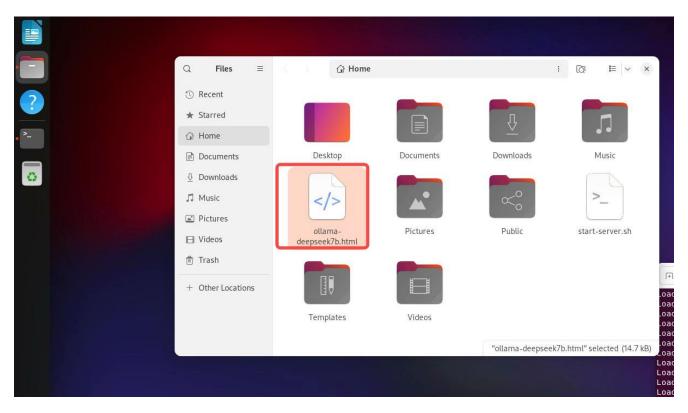
Ollama Containerized Deepseek-R1-7B Usage Guide

The AI PC comes pre-installed with a containerized local DeepSeek 7B model via Ollama and includes a startup script. Simply run the script to use the model. For an enhanced experience, a visual frontend is included.

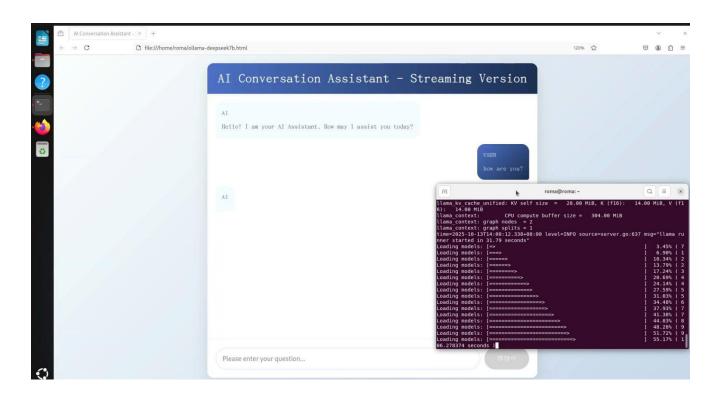
1. Open Terminal and run:

sudo ./start-server.sh

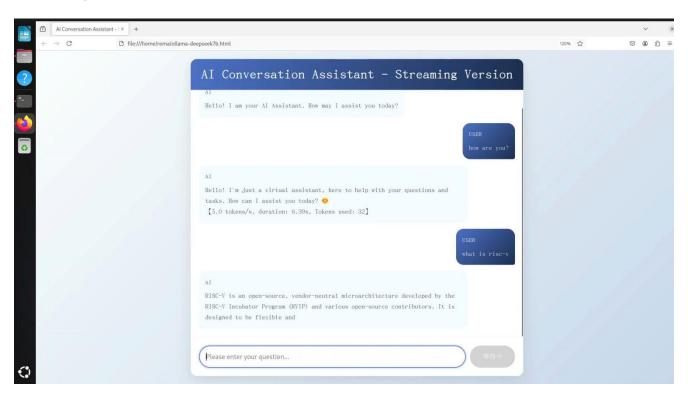
2. Double-click ollama-deepseek7b.html to open the visual interface.



3. Ask questions in the dialog box. Note: Initial query loads the model (~3 minutes).

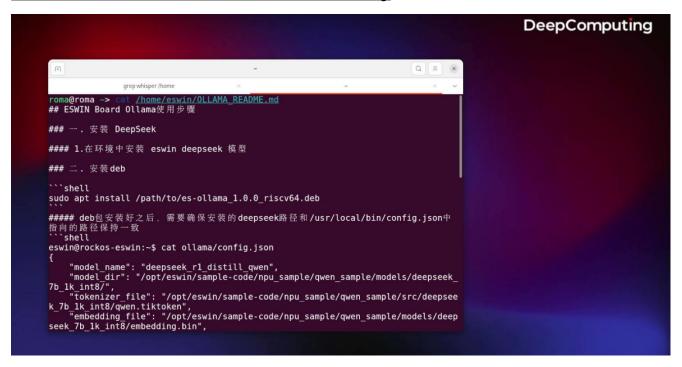


4. Sample Execution



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5. You can view the usage steps in the /home/eswin/OLLAMA_README.mddirectory.



Terminal Execution: Deepseek-7B with Dual-Gen NPU Acceleration

1. Launch Model via Terminal:

sudo /opt/eswin/sample-code/npu_sample/qwen_sample/bin/es_qwen2 /opt/eswin/samplecode/npu_sample/qwen_sample/src/deepseek_7b_1k_int8_peer/config.json

2. Select the interaction pattern according to the prompt

Terminal Execution: Whisper Model

1. Open Terminal and run the command to view the model usage guide:

```
cat /home/eswin/whisper/WHISPER_README.md

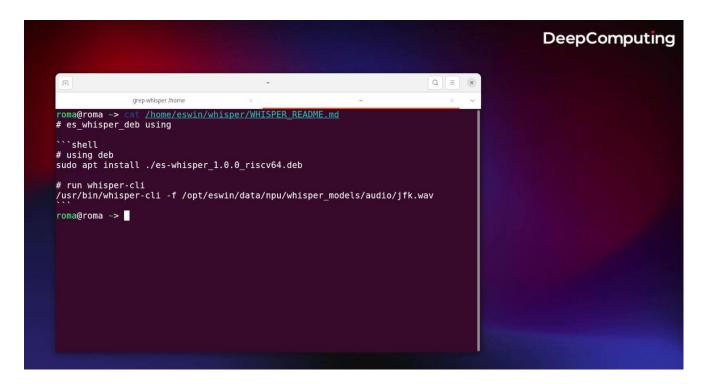
# es_whisper_deb using

```shell

using deb

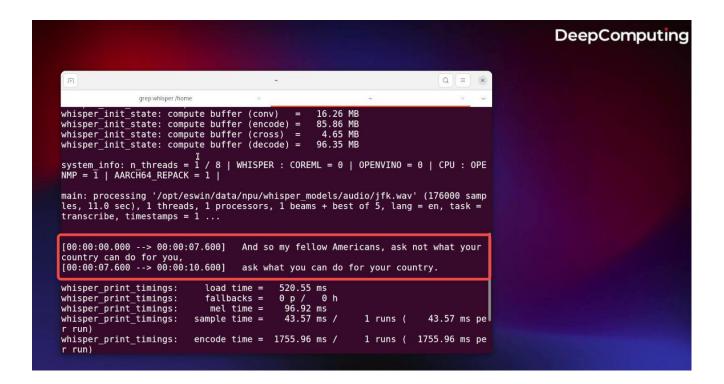
sudo apt install ./es-whisper_1.0.0_riscv64.deb

run whisper-cli
/usr/bin/whisper-cli -f /opt/eswin/data/npu/whisper_models/audio/jfk.wav
```



2. Enter the command to launch the model, which will run a demo converting speech to text.

sudo /usr/bin/whisper-cli -f /opt/eswin/data/npu/whisper\_models/audio/jfk.wav



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