

# DeepSeek-R1

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## DeepSeek-R1

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### Demo Environment

**Development Boards:** Jetson Orin, RDK X5, Raspberry Pi 5 series motherboard

**Note: Due to performance limitations, Jetson Orin Nano 4GB, Raspberry Pi 5 2GB/4GB, and RDK X5 4GB versions require a smaller parameter version to run.**

DeepSeek-R1 is an open-source large language model (LLM) designed by DeepSeek for understanding and generating code.

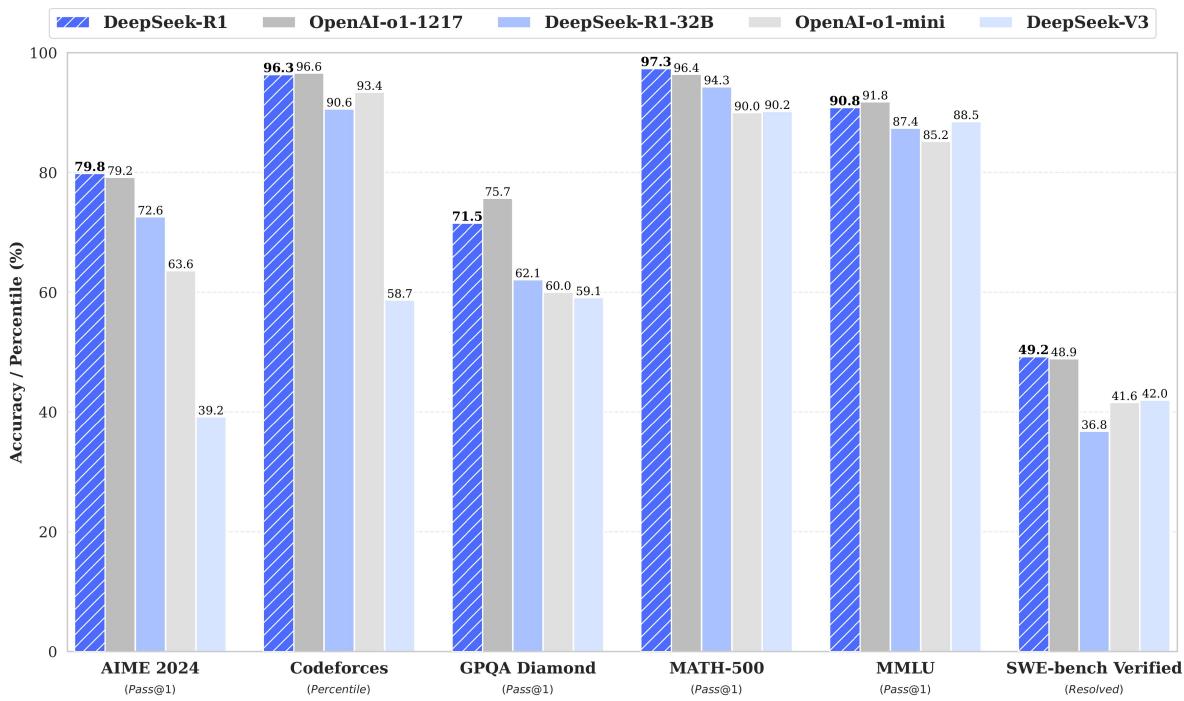
## 1. Model Size

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Model	Size
deepseek-r1:1.5b	1.1GB
deepseek-r1:7b	4.7GB
deepseek-r1:8b	5.2GB

## 2. Performance

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## 3. Using DeepSeek-R1

### 3.1 Running DeepSeek-R1

Use the `run` command to start running the R model. If you haven't downloaded this model before, it will automatically pull the model from the Ollama model library:

- ORIN user

```
ollama run deepseek-r1
```

- PI5, RDK X5 user

```
ollama run deepseek-r1:8b
```

```
:~$ ollama run deepseek-r1
pulling manifest
pulling e6a7edc1a4d7: 100% 5.2 GB
pulling c5ad996bda6e: 100% 556 B
pulling 6e4c38e1172f: 100% 1.1 KB
pulling ed8474dc73db: 100% 179 B
pulling f64cd5418e4b: 100% 487 B
verifying sha256 digest
writing manifest
success
>>> Send a message (/? for help)
```

### 3.2 Engaging in a Dialogue

```
How many minutes are there in a day?
```

The response time depends on your hardware configuration. Please be patient!

>>> How many minutes are there in a day?

Thinking...

I need to find out how many minutes are in a day. I know that a day has 24 hours, and each hour has 60 minutes. So, if I multiply those together, I should get the number of minutes.

Let me do that step by step. First, there are 24 hours in a day. Then, for each hour, there are 60 minutes. So, to find the total minutes, it's 24 times 60.

Calculating:  $24 \times 60$ . Well,  $20 \times 60$  is 1200, and  $4 \times 60$  is 240, so  $1200 + 240 = 1440$  minutes in a day.

I should double-check that because I think this might be something people commonly get wrong or right. Let me think about the definition of time units. An hour is defined as approximately 60 minutes, but for standard calculations, we use exact values since we're talking about a full day.

A day is typically considered to have exactly 24 hours, and an hour has exactly 60 minutes. So yes, that should be correct.

But let me consider if there's any variation. For example, in some contexts. like with leap seconds or something. but I think for most

### 3.3 Ending the Conversation

You can end the conversation using the shortcut `ctrl+d` or `/bye!`

### 3.4 Chinese Dialogue

For those without a Chinese input method, please refer to the Chinese input method switching tutorial.

Chinese Dialogue:

>>> 一个小时是多少分钟？请用中文告诉我

Thinking...

嗯，用户这次问的是“一个小时是多少分钟”，并且明确要求用中文回答。看来ta可能是在练习中英文转换，或者需要确认这个基础概念。

刚才我刚解释过一天有1440分钟，现在这个问题更简单些，但同样属于时间单位换算的基础知识。用户特意强调中文，说不定是个正在学中文的人，或者是需要用中文和孩子沟通的家长？

考虑到这是非常基础的问题，回答时要特别注意清晰度和准确性。先直接给出答案“60分钟”，再补充说明小时与分钟的关系会更完整—毕竟1440分钟换算成24小时是常识，但单独说一小时等于多少分钟可能对初学者更有帮助。

用户连续问了两个时间单位的问题，可能是为了建立关联记忆。比如先知道一天有1440分钟，再理解其中包含24小时，每小时60分钟就能连贯起来了。不过目前只需要专注回答当前问题就好。

...done thinking.

一个小时是 \*\*60分钟\*\*。

## References

### Ollama

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

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

### DeepSeek-R1

Ollama's corresponding model: <https://ollama.com/library/deepseek-r1>

GitHub: <https://github.com/deepseek-ai/DeepSeek-r1>