

# DeepSeek Local Setup

Here's a **better step-by-step guide** on how to **install and run DeepSeek locally using Olama** on **Windows, macOS, and Linux**:

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## **How to Install and Download DeepSeek Locally Using Olama**

### **Step 1: Download and Install Olama**

**Olama** is required to run DeepSeek on your local machine.

◆ **For Windows:**

1. **Go to the official website** → <https://ollama.com>
2. **Download the Windows `.exe` file.**
3. **Run the installer** and follow the on-screen instructions.
4. **Restart your computer** to ensure everything is set up correctly.

◆ **For macOS:**

1. Open **Terminal** and run:

```
brew install ollama
```

2. After installation, restart the terminal.

◆ **For Linux (Ubuntu/Debian):**

1. Run the following command in the terminal:

```
curl -fsSL https://ollama.ai/install.sh | sh
```

2. Restart your terminal after installation.
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### **Step 2: Download DeepSeek Model**

If you need a smaller or larger model, you can specify:

```
ollama pull deepseek:8b # 8 Billion parameter model
ollama pull deepseek:14b # 14 Billion parameter model
ollama pull deepseek:32b # 32 Billion parameter model
```

website:

library

<https://ollama.com/library/deepseek-r1>

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### Step 3: Run DeepSeek Locally

After downloading, you can start using DeepSeek in the terminal by running:

```
ollama run <model name>
```

Now, DeepSeek will start running locally, and you can interact with it directly from the command line.

example screenshot:

```
C:\Users\bibhu>ollama list
NAME                ID                SIZE      MODIFIED
qwen2.5-coder:32b   4bd6cbf2d094     19 GB    9 days ago
qwen2.5-coder:latest 2b0496514337     4.7 GB   9 days ago
llama3.2-vision:latest 085a1fdae525    7.9 GB   9 days ago
mistral:latest      f974a74358d6     4.1 GB   9 days ago
llava:latest        8dd30f6b0cb1     4.7 GB   9 days ago
phi4:latest         ac896e5b8b34     9.1 GB   2 weeks ago
llama2:7b           78e26419b446     3.8 GB   2 weeks ago
deepseek-r1:32b     38056bbcbb2d     19 GB    3 weeks ago
deepseek-r1:14b     ea35dfe18182     9.0 GB   3 weeks ago
deepseek-r1:1.5b ← a42b25d8c10a     1.1 GB   4 weeks ago

C:\Users\bibhu>ollama run deepseek-r1:1.5b ←
>>> |Send a message (/? for help)
```

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### Step 4: Use DeepSeek in Python

If you want to integrate DeepSeek into your Python application, install Ollama's Python package and use:

```
import subprocess

def run_ollama_prompt(prompt, model="deepseek-r1:1.5b"):
    """Runs a prompt using Ollama CLI and returns the response."""
    command = ["ollama", "run", model, prompt]

    try:
        result = subprocess.run(command, capture_output=True, text=True, check=True)
        return result.stdout.strip()
    except subprocess.CalledProcessError as e:
        print("Error running Ollama:", e)
        return None

if __name__ == "__main__":
    prompt = "What is the capital of France?"
    response = run_ollama_prompt(prompt)

    if response:
        print("Response:", response)
    else:
        print("Failed to get a response.")
```

This allows you to **use DeepSeek programmatically** for AI-powered applications.

## Final Thoughts

DeepSeek is now **installed and running locally!** 

You can now **build AI apps, chatbots, and automation tools** using DeepSeek without relying on cloud APIs.

Let me know if you need further clarifications! 

