

LessonCode2

This code helps us to run chat until we type exit in the command.

Explanation of the Code ([Python_Deepseek_chat.py](#))

This script is an interactive chatbot using the **Ollama** CLI, allowing users to send prompts and receive responses from the AI model **DeepSeek**.

1. Importing Required Module

```
import subprocess
```

- `subprocess` → Used to run system commands (like calling Ollama).
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2. Function to Run Ollama Prompt

```
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, c
heck=True, encoding="utf-8")
        return result.stdout.strip()
    except subprocess.CalledProcessError as e:
        print("Error running Ollama:", e)
        return None
```

Key Features:

- Takes a **prompt** as input and **runs Ollama CLI** using `subprocess`.
 - `capture_output=True` → Captures the AI's response.
 - **Handles errors** gracefully with `try-except`.
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3. Running the Chatbot in a Loop

```
if __name__ == "__main__":  
    while True:  
        prompt = input("Enter your prompt (type 'exit' to exit): ")  
  
        if prompt.lower() == "exit":  
            print("Exiting...")  
            break  
  
        response = run_ollama_prompt(prompt)  
  
        if response:  
            print("Response:", response)  
        else:  
            print("Failed to get a response.")
```

Key Features:

- **Loop for continuous conversation:**
 - User enters a prompt.
 - Checks for "exit" to terminate the chat.
 - Calls `run_ollama_prompt()` to get a response from the AI.
- **Prints the AI's response** or an error message.

Example Usage

Running the script:

```
python Python_Deepseek_chat.py
```

Sample Interaction:

```
Enter your prompt (type 'exit' to exit): What is the capital of France?  
Response: Paris
```

Enter your prompt (type 'exit' to exit): Who discovered gravity?

Response: Sir Isaac Newton

Enter your prompt (type 'exit' to exit): exit

Exiting...