

Ollama

本地快速上手大型语言模型

(Llama 3.1, Mistral, Gemma 2, ...)



操作步骤

- 实现 Ollama 模型调用工具
- 运行确认



揚作演示

main.py

```
import time, pprint, warnings
from langchain_ollama import ChatOllama
from langchain_core.tools import tool
from langchain import hub
from langchain.agents import AgentExecutor, create_tool_calling_agent
warnings.simplefilter("ignore")
def evalEndTime(start_time):
    end_time = time.time() # 获取结束时间
    execution_time = "(程序运行时间:%.2f 秒)" % (
        end_time - start_time
    ) # 计算程序运行时间
    return execution_time
@tool
def get_weather(location: str):
    """Call to get the current weather."""
    if location.lower() in ["tyo", "tokyo", "东京", "東京"]:
return location + "→" + "下雨"
        return location + "→" + "晴天"
print("=" * 100)
start_time = time.time() # 获取开始时间
tools = [
    get_weather,
# 创建Ollama
llm = ChatOllama(
    model="llama3.1:8b", # 支持工具调用
    # model="gemma2:9b", # 不支持工具调用
    temperature=0.5,
print(">", llm)
prompt = hub.pull("hwchase17/openai-tools-agent")
agent = create_tool_calling_agent(
    llm=llm,
    tools=tools.
    prompt=prompt,
# 创建Agent执行器
agent_executor = AgentExecutor.from_agent_and_tools(
    agent=agent,
    tools=tools,
    verbose=True,
    handle_parsing_errors=True,
"esponse = agent_executor.invoke({"input": "Can you tell me the weather in Tokyo?"})
# response = agent_executor.invoke({"input": "Can you tell me the weather in Boston?"})
# response = agent_executor.invoke({"input": "清音诉我东京的天气?"})
pprint.pprint(response)
```



不課門到

课件下载: https://github.com/komavideo/lesson_ollama