

Ollama

本地快速上手大型语言模型

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

> 多模态调用 - 分析图片

操作步骤

- 安装需要的类库
- 编写图片分析代码



揚作演示

课堂实验

执行脚本

BakLLaVA 是一个多模态模型,由 Mistral 7B 基本模型和 LLaVA 架构增强组成 ollama pull bakllava

安装图片处理类库 pip install Pillow=10.4.0

main.py

```
import time, pprint, warnings, base64, io
from langchain_ollama import ChatOllama
from langchain_core.tools import tool
from langchain_core.messages import HumanMessage
from PIL import Image
warnings.simplefilter("ignore")
def evalEndTime(start_time):
    end_time = time.time() # 获取结束时间
    execution_time = "很更强而时间"%.2f 秒)"%(
    end_time - start_time
) # 计算程序运行时间
     return execution_time
def convert_to_base64(image_path):
     pil_image = Image.open(image_path)
     buffered = io.BytesIO()
     pil_image.save(buffered, format="JPEG")
    img_str = base64.b64encode(buffered.getvalue()).decode("utf-8")
return img_str
print("=" * 100)
start_time = time.time() # 获取开始时间
llm_bakllava = ChatOllama(
    model="bakllava", # 多模态模型
     temperature=0.5,
print(">", llm_bakllava)
model="gemma2:9b",
     temperature=0.5,
print(">", llm)
image_data = convert_to_base64("image.jpg")
messages = [
     HumanMessage(
         content=[
                   "text": "Please provide a detailed description of the content in this image.",
                   "type": "image_url",
"image_url": {"url": f"data:image/jpeg;base64,{image_data}"},
result = llm_bakllava.invoke(messages)
print("-" * 100)
print(result.content)
# 翻译中文
result = llm.invoke(
f"""把下面的内容翻译成中文
{result.content}
print("-" * 100)
print(result.content)
```



不課門到

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