

测试 Mistral API

这是对 Mistral API 的一个快速测试。我在测试中使用了 `mistral-small-2501` 模型。下面的代码展示了如何调用 API 并获取响应。

```
import os
import requests
from dotenv import load_dotenv
import argparse

load_dotenv()

def call_mistral_api(prompt, model="mistral-small-2501"):
    api_key = os.environ.get("MISTRAL_API_KEY")
    if not api_key:
        print(" 错误: MISTRAL_API_KEY 环境变量未设置.")
        return None

    url = "https://api.mistral.ai/v1/chat/completions"
    headers = {
        "Content-Type": "application/json",
        "Accept": "application/json",
        "Authorization": f"Bearer {api_key}"
    }
    data = {
        "model": model,
        "messages": [
            {
                "role": "user",
                "content": prompt
            }
        ]
    }
    try:
        response = requests.post(url, headers=headers, json=data)
        response.raise_for_status()
        response_json = response.json()
        print(response_json)
        if response_json and response_json['choices']:
            content = response_json['choices'][0]['message']['content']
    except requests.exceptions.RequestException as e:
        print(f" 请求错误: {e}")

if __name__ == "__main__":
    parser = argparse.ArgumentParser()
    parser.add_argument("prompt", type=str, help="输入文本")
    args = parser.parse_args()
    call_mistral_api(args.prompt)
```

```

        return content

    else:
        print(f"Mistral API 错误: 无效的响应格式: {response_json}")
        return None

except requests.exceptions.RequestException as e:
    print(f"Mistral API 错误: {e}")

    if e.response:
        print(f" 响应状态码: {e.response.status_code}")
        print(f" 响应内容: {e.response.text}")

    return None


def call_codelstral_api(prompt, model="codestral-latest"):
    api_key = os.environ.get("MISTRAL_API_KEY")

    if not api_key:
        print(" 错误: MISTRAL_API_KEY 环境变量未设置.")
        return None

    url = "https://api.mistral.ai/v1/fim/completions"
    headers = {
        "Content-Type": "application/json",
        "Accept": "application/json",
        "Authorization": f"Bearer {api_key}"
    }

    data = {
        "model": model,
        "prompt": prompt,
        "suffix": "return a + b",
        "max_tokens": 64,
        "temperature": 0
    }

    try:
        response = requests.post(url, headers=headers, json=data)
        response.raise_for_status()
        response_json = response.json()
        print(response_json)

        if response_json and response_json['choices']:
            content = response_json['choices'][0]['message']['content']
            return content

        else:
            print(f"Codestral API 错误: 无效的响应格式: {response_json}")

```

```
    return None

except requests.exceptions.RequestException as e:
    print(f"Codestral API 错误: {e}")

    if e.response:
        print(f" 响应状态码: {e.response.status_code}")
        print(f" 响应内容: {e.response.text}")

    return None

if __name__ == "__main__":
    parser = argparse.ArgumentParser(description=" 测试 Mistral 和 Codestral APIs.")
    parser.add_argument("--type", type=str, default="mistral", choices=["mistral", "codestral"], help=" 要调用的 API")
    args = parser.parse_args()

    if args.type == "mistral":
        prompt = "what's your cutting point of knowledge"
        response = call_mistral_api(prompt)
        if response:
            print(f" 响应: {response}")

    elif args.type == "codestral":
        prompt = "def f("
        response = call_codestral_api(prompt, model="codestral-latest")
        if response:
            print(f" 响应: {response}")
```