Package 'LLM'

January 30, 2025

Type Package

Title A Package for Accessing Large Language Models

Version 0.1.0

Description LLM is an R package that provides a streamlined interface for interacting with various large language models (LLMs), such as OpenAI's GPT-3, GPT-4, and other advanced AI models. This package allows R users to easily send queries to these models, receive responses, and incorporate them into their analytical workflows. With flexible configuration options for API keys, model selection, and response customization, LLM empowers researchers, data scientists, and developers to integrate the power of large models into R-based projects. Whether for natural language processing, text generation, or advanced data analysis, LLM offers an accessible way to leverage the latest in AI technology within the R ecosystem.

License GPL (>= 3)

Encoding UTF-8

LazyData true

RoxygenNote 7.3.1

Roxygen list(markdown = TRUE)

Depends R (>= 2.10)

Contents

ChatGPT　　　　　　　　*OpenAI Chat Request Function*

Description

This function sends a chat request to the OpenAI model and returns the model's response. It accepts various parameters to control the request, such as the model and temperature.

Usage

```
ChatGPT(
  content,
  model = "gpt-4o",
  temperature = 0.7,
  venv_name = "rpy",
  api_key = Sys.getenv("chatGPT_API_KEY"),
  base_url = "https://api.pumpkinaigc.online/v1"
)
```

Arguments

content	A character string representing the user's question or prompt to send to the OpenAI model.
model	A character string specifying which model to use. Default is `"gpt-4o"`. Other options include `"gpt-3.5-turbo"`, `"gpt-4"`, etc.
temperature	A numeric value between 0 and 1 that controls the randomness of the model's response. Default is `0.7`. Lower values make the response more deterministic.
venv_name	A character string specifying the name of the Python virtual environment. Default is `"rpy"`.
api_key	A character string representing the API key for authentication.
base_url	A character string specifying the base URL of the OpenAI API. Default is `"https://api.pumpkinaigc.online/v1"`.

Details

This function initializes an OpenAI client, sends the user's question to the model, and processes the response. It allows for customization of parameters like model type and temperature. The `tryCatch()` function ensures that errors during the API call are handled gracefully, and the request is retried if necessary.

Value

A character string containing the model's response to the user's question.

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