

Package ‘chatLLM’

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Type Package

Title A Flexible Interface for 'LLM' API Interactions

Version 0.1.1

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Description Provides a flexible interface for interacting with Large Language Model ('LLM') providers such as 'OpenAI' (<<https://openai.com/>>), 'Groq' (<<https://groq.com/>>), and 'Anthropic' (<<https://www.anthropic.com/>>). Supports both synchronous and asynchronous API calls with features such as retry logic, support for additional parameters, and multi-message handling to streamline integration with state-of-the-art 'LLM' APIs.

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Encoding UTF-8

RoxygenNote 7.3.2

Imports httr (>= 1.4.0), jsonlite (>= 1.7.2)

Suggests future, promises, later, testthat, roxygen2

URL <https://github.com/knowusuboaky/chatLLM>

BugReports <https://github.com/knowusuboaky/chatLLM/issues>

NeedsCompilation no

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Repository CRAN

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call_llm	<i>Call a Large Language Model with optional retries & extra parameters</i>
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Description

Call a Large Language Model with optional retries & extra parameters

Usage

```
call_llm(
  prompt = NULL,
  messages = NULL,
  provider = c("openai", "groq", "anthropic"),
  model = NULL,
  temperature = 0.7,
  max_tokens = 1000,
  api_key = NULL,
  n_tries = 3,
  backoff = 2,
  endpoint_url = NULL,
  ...,
  .post_func = httr::POST
)
```

Arguments

prompt	(character) A single user prompt. If ‘messages’ provided, prompt is appended as a user message (optional).
messages	(list) A list of message objects, each a list(role, content).
provider	(character) One of "openai", "groq", or "anthropic".
model	(character) The model name. Defaults to a known model per provider.
temperature	(numeric) Sampling temperature (0 to ~2).
max_tokens	(integer) Maximum number of tokens to generate.
api_key	(character) An API key. If NULL, uses the environment variable.
n_tries	(integer) Number of attempts for retry on failure.
backoff	(numeric) Seconds to wait between retries.
endpoint_url	(character) Base URL for the provider. If NULL, uses a default for the given provider.
...	Additional parameters appended to the request body.
.post_func	(function) (Internal) Function to perform POST requests. Defaults to httr::POST.

Value

(character) The text completion from the chosen model.

Examples

```
## Not run:
response <- call_llm(
  prompt = "Hello, how are you?",
  provider = "openai",
  max_tokens = 50,
  n_tries = 3,
  backoff = 2
)
cat(response)

conv <- list(
  list(role = "system", content = "You are a helpful assistant."),
  list(role = "user", content = "Explain recursion in R.")
)
response <- call_llm(
  messages = conv,
  provider = "openai",
  max_tokens = 200,
  presence_penalty = 0.2,
  frequency_penalty = 0.1,
  top_p = 0.95,
  stop = c("###")
)
cat(response)

## End(Not run)
```

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