

Package ‘chattr’

May 8, 2026

Title Interact with Large Language Models in 'RStudio'

Version 0.3.1

Description Enables user interactivity with large-language models ('LLM') inside the 'RStudio' integrated development environment (IDE). The user can interact with the model using the 'shiny' app included in this package, or directly in the 'R' console. It comes with back-ends for 'OpenAI', 'GitHub' 'Copilot', and 'LlamaGPT'.

URL <https://github.com/mlverse/chattr>,
<https://mlverse.github.io/chattr/>

BugReports <https://github.com/mlverse/chattr/issues>

License MIT + file LICENSE

Encoding UTF-8

RoxygenNote 7.3.2

Imports rstudioapi, lifecycle, processx, config, ellmer (>= 0.3.0),
purrr, rlang, bslib, shiny, clipr, httr2 (>= 1.1.0), yaml,
glue, coro, cli, fs

Depends R (>= 2.10)

Suggests covr, knitr, rmarkdown, testthat (>= 3.0.0), shinytest2,
withr

Config/testthat/edition 3

VignetteBuilder knitr

NeedsCompilation no

Author Edgar Ruiz [aut, cre],
Posit Software, PBC [cph, fnd]

Maintainer Edgar Ruiz <edgar@posit.co>

Repository CRAN

Date/Publication 2025-08-18 19:00:20 UTC

Contents

chattr	2
chattr_app	3
chattr_defaults	3
chattr_defaults_save	5
chattr_test	5
chattr_use	6
Index	8

chattr	<i>Submits prompt to LLM</i>
--------	------------------------------

Description

Submits prompt to LLM

Usage

```
chattr(prompt = NULL, preview = FALSE, prompt_build = TRUE, stream = NULL)
```

Arguments

prompt	Request to send to LLM. Defaults to NULL
preview	Primarily used for debugging. It indicates if it should send the prompt to the LLM (FALSE), or if it should print out the resulting prompt (TRUE)
prompt_build	Include the context and additional prompt as part of the request
stream	To output the response from the LLM as it happens, or wait until the response is complete. Defaults to TRUE.

Value

The output of the LLM to the console, document or script.

Examples

```
library(chattr)
chattr_use("test")
chattr("hello")
chattr("hello", preview = TRUE)
```

chattr_app *Starts a Shiny app interface to the LLM*

Description

Starts a Shiny app interface to the LLM

Usage

```
chattr_app(
  viewer = c("viewer", "dialog"),
  as_job = getOption("chattr.as_job", FALSE),
  as_job_port = getOption("shiny.port", 7788),
  as_job_host = getOption("shiny.host", "127.0.0.1")
)
```

Arguments

viewer	Specifies where the Shiny app is going to display
as_job	App runs as an RStudio IDE Job. Defaults to FALSE. If set to TRUE, the Shiny app will not be able to transfer the code blocks directly to the document, or console, in the IDE.
as_job_port	Port to use for the Shiny app. Applicable only if as_job is set to TRUE.
as_job_host	Host IP to use for the Shiny app. Applicable only if as_job is set to TRUE.

Value

A chat interface inside the 'RStudio' IDE

chattr_defaults *Default arguments to use when making requests to the LLM*

Description

Default arguments to use when making requests to the LLM

Usage

```
chattr_defaults(
  type = "default",
  prompt = NULL,
  max_data_files = NULL,
  max_data_frames = NULL,
  include_doc_contents = NULL,
  include_history = NULL,
```

```

  provider = NULL,
  path = NULL,
  model = NULL,
  model_arguments = NULL,
  system_msg = NULL,
  yaml_file = "chattr.yml",
  force = FALSE,
  label = NULL,
  ...
)

```

Arguments

type	Entry point to interact with the model. Accepted values: 'notebook', chat'
prompt	Request to send to LLM. Defaults to NULL
max_data_files	Sets the maximum number of data files to send to the model. It defaults to 20. To send all, set to NULL
max_data_frames	Sets the maximum number of data frames loaded in the current R session to send to the model. It defaults to 20. To send all, set to NULL
include_doc_contents	Send the current code in the document
include_history	Indicates whether to include the chat history when every time a new prompt is submitted
provider	The name of the provider of the LLM. Today, only "openai" is available
path	The location of the model. It could be an URL or a file path.
model	The name or path to the model to use.
model_arguments	Additional arguments to pass to the model as part of the request, it requires a list. Examples of arguments: temperature, top_p, max_tokens
system_msg	For OpenAI GPT 3.5 or above, the system message to send as part of the request
yaml_file	The path to a valid config YAML file that contains the defaults to use in a session
force	Re-process the base and any work space level file defaults
label	Label to display in the Shiny app, and other locations
...	Additional model arguments that are not standard for all models/backends

Details

The idea is that because we will use `addin` shortcut to execute the request, all of the other arguments can be controlled via this function. By default, it will try to load defaults from a config YAML file, if none are found, then the defaults for GPT 3.5 will be used. The defaults can be modified by calling this function, even after the interactive session has started.

Value

An 'ch_model' object that contains the current defaults that will be used to communicate with the LLM.

chattr_defaults_save	<i>Saves the current defaults in a yaml file that is compatible with the config package</i>
----------------------	---

Description

Saves the current defaults in a yaml file that is compatible with the config package

Usage

```
chattr_defaults_save(path = "chattr.yaml", overwrite = FALSE, type = NULL)
```

Arguments

path	Path to the file to save the configuration to
overwrite	Indicates to replace the file if it exists
type	The type of UI to save the defaults for. It defaults to NULL which will save whatever types had been used during the current R session

Value

It creates a YAML file with the defaults set in the current R session.

chattr_test	<i>Confirms connectivity to LLM interface</i>
-------------	---

Description

Confirms connectivity to LLM interface

Usage

```
chattr_test(defaults = NULL)
```

```
ch_test(defaults = NULL)
```

Arguments

defaults	Defaults object, generally pulled from chattr_defaults()
----------	--

Value

It returns console messages with the status of the test.

chattr_use	<i>Sets the LLM model to use in your session</i>
------------	--

Description

Sets the LLM model to use in your session

Usage

```
chattr_use(x = NULL, ...)
```

Arguments

x	A pre-determined provider/model name, an ellmer Chat object, or the path to a YAML file that contains a valid chattr model specification. The value 'test' is also acceptable, but it is meant for package examples, and internal testing. See 'Details' for more information.
...	Default values to modify.

Details

The valid pre-determined provider/models values are: 'databricks-dbrx', 'databricks-meta-llama31-70b', 'databricks-mixtral8x7b', 'gpt41-mini', 'gpt41-nano', 'gpt41', 'gpt4o', and 'ollama'.

If you need a provider, or model, not available as a pre-determined value, create an ellmer chat object and pass that to chattr_use(). The list of valid models are found here: <https://ellmer.tidyverse.org/index.html#providers>

Set a default:

You can setup an R option to designate a default provider/model connection. To do this, pass an ellmer connection command you wish to use in the .chattr_chat option, for example: options(.chattr_chat = ellmer::chat_anthropic()). If you add that code to your .Rprofile, chattr will use that as the default model and settings to use every time you start an R session. Use the usethis::edit_r_profile() command to easily edit your .Rprofile.

Value

It returns console messages to allow the user select the model to use.

Examples

```
## Not run:

# Use a valid provider/model label
chattr_use("gpt41-mini")

# Pass an `ellmer` object
my_chat <- ellmer::chat_anthropic()
chattr_use(my_chat)
```

chattr_use

7

End(Not run)

Index

ch_test (chattr_test), 5
chattr, 2
chattr_app, 3
chattr_defaults, 3
chattr_defaults_save, 5
chattr_test, 5
chattr_use, 6