

# Package ‘chattr’

August 18, 2025

**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

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**Repository** CRAN

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

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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)
```

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|            |                                                |
|------------|------------------------------------------------|
| chattr_app | <i>Starts a Shiny app interface to the LLM</i> |
|------------|------------------------------------------------|

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**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

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|                 |                                                                 |
|-----------------|-----------------------------------------------------------------|
| chattr_defaults | <i>Default arguments to use when making requests to the LLM</i> |
|-----------------|-----------------------------------------------------------------|

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**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.

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

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**Description**

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

**Usage**

```
chattr_defaults_save(path = "chattr.yml", 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.

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

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**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.

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|            |                                                  |
|------------|--------------------------------------------------|
| 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*

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## End(Not run)

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