Package: cat.cog (via r-universe)

June 4, 2026

Title Cognitive Assessment Scoring with LLMs

Version 0.1.0

Description R interface to the Python cat-cog package. Scores CERAD constructional praxis (drawn shape) assessments using LLMs. A thin domain wrapper around cat.stack for cognitive test scoring from images.

License GPL (>= 3)

URL https://christophersoria.com/cat-llm/cat.cog/, https://github.com/chrissoria/cat-llm

BugReports https://github.com/chrissoria/cat-llm/issues

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SystemRequirements Python (>= 3.9), pip

Imports reticulate (>= 1.28), cat.stack (>= 0.1.0)

Suggests testthat (>= 3.0.0), knitr, rmarkdown

VignetteBuilder knitr

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Repository https://chrissoria.r-universe.dev

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RemoteSubdir r-package/cat.cog

Contents

`cerad_drawn_score` *Score CERAD constructional praxis drawings using LLMs*

Description

Wraps the Python `cat_cog.cerad_drawn_score()` function. Scores drawn shapes (circle, diamond, rectangles, cube) from the CERAD constructional praxis assessment using vision-capable LLMs.

Usage

```
cerad_drawn_score(
  shape,
  image_input,
  api_key,
  user_model = "gpt-4o",
  creativity = NULL,
  safety = FALSE,
  chain_of_thought = TRUE,
  filename = NULL,
  save_directory = NULL,
  model_source = "auto",
  ...
)
```

Arguments

`shape`	Character. The shape being scored: `"circle"`, `"diamond"`, `"rectangles"`, or `"cube"`.
`image_input`	Character. Path to the image file or directory of images.
`api_key`	Character. API key for the model provider.
`user_model`	Character. Model name. Default `"gpt-4o"`.
`creativity`	Numeric or `NULL`. Temperature setting. Default `NULL`.
`safety`	Logical. Save progress after each item. Default `FALSE`.
`chain_of_thought`	Logical. Enable chain-of-thought reasoning. Default `TRUE`.
`filename`	Character or `NULL`. Output CSV filename. Default `NULL`.
`save_directory`	Character or `NULL`. Directory to save results. Default `NULL`.
`model_source`	Character. Provider hint: `"auto"`, `"openai"`, `"anthropic"`, `"google"`, etc. Default `"auto"`.
`...`	Additional arguments passed to the Python function.

Value

A `data.frame` with scoring results.

Examples

```
## Not run:
# Score a single circle drawing
result <- cerad_drawn_score(
  shape       = "circle",
  image_input = "path/to/circle_drawing.png",
  api_key     = Sys.getenv("OPENAI_API_KEY")
)

# Score a directory of cube drawings
results <- cerad_drawn_score(
  shape       = "cube",
  image_input = "path/to/cube_drawings/",
  api_key     = Sys.getenv("OPENAI_API_KEY"),
  user_model  = "claude-sonnet-4-5-20250929",
  model_source = "anthropic"
)

## End(Not run)
```

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