

Package: validmind (via r-universe)

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Type Package

Title Interface to the 'ValidMind' Platform

Version 0.1.1

Maintainer Andres Rodriguez <andres@validmind.ai>

Description Deploy, execute, and analyze the results of models hosted on the 'ValidMind' platform <<https://validmind.com>>. This package interfaces with the 'Python' client library in order to allow advanced diagnostics and insight into trained models all from an 'R' environment.

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Encoding UTF-8

URL <https://github.com/validmind/developer-framework>

BugReports <https://github.com/validmind/developer-framework/issues>

RoxygenNote 7.3.1

Imports glue, reticulate, dplyr, plotly, htmltools, rmarkdown, DT, base64enc

NeedsCompilation no

Author Andres Rodriguez [aut, cre, cph]

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Repository <https://cachafla.r-universe.dev>

RemoteUrl <https://github.com/cran/validmind>

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build_r_plotly	<i>Build an R Plotly figure from a JSON representation</i>
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Description

Build an R Plotly figure from a JSON representation

Usage

```
build_r_plotly(plotly_figure)
```

Arguments

plotly_figure A nested list containing plotly elements

Value

An R Plotly object derived from the JSON representation

display_report	<i>Produce RMarkdown-compatible output of all results</i>
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Description

Produce RMarkdown-compatible output of all results

Usage

```
display_report(processed_results)
```

Arguments

processed_results
A list of processed result objects

Value

A formatted list of RMarkdown widgets

Examples

```
## Not run:
vm_dataset = vm_r$init_dataset(
  dataset=data,
  target_column="Exited",
  class_labels=list("0" = "Did not exit", "1" = "Exited")
)

tabular_suite_results <- vm_r$run_test_suite("tabular_dataset", dataset=vm_dataset)

processed_results <- process_result(tabular_suite_results)
all_widgets <- display_report(processed_results)
for (widget in all_widgets) {
  print(widget)
}

## End(Not run)
```

```
print_summary_tables Print a summary table of the ValidMind results
```

Description

Print a summary table of the ValidMind results

Usage

```
print_summary_tables(result_summary)
```

Arguments

result_summary A summary of the results

Value

A data frame containing the summary of the ValidMind results

process_result *Process a set of ValidMind results into parseable data*

Description

Process a set of ValidMind results into parseable data

Usage

```
process_result(results)
```

Arguments

results A list of ValidMind result objects

Value

A nested list of ValidMind results (dataframes, plotly plots, and matplotlib plots)

Examples

```
## Not run:
vm_dataset = vm_r$init_dataset(
  dataset=data,
  target_column="Exited",
  class_labels=list("0" = "Did not exit", "1" = "Exited")
)

tabular_suite_results <- vm_r$run_test_suite("tabular_dataset", dataset=vm_dataset)

processed_results <- process_result(tabular_suite_results)
processed_results

## End(Not run)
```

summarize_metric_result
Provide a summarization of a single metric result

Description

Provide a summarization of a single metric result

Usage

```
summarize_metric_result(result)
```

Arguments

result The ValidMind result object

Value

A list containing the summary of the ValidMind results

summarize_result *Provide a summarization of a single result (test or metric)*

Description

Provide a summarization of a single result (test or metric)

Usage

summarize_result(result)

Arguments

result The ValidMind result object

Value

Based on the type of 'result', either A list containing the summary of the ValidMind results, or a list containing the summary of the ValidMind results

summarize_test_result *Provide a summarization of a single test result*

Description

Provide a summarization of a single test result

Usage

summarize_test_result(result)

Arguments

result The ValidMind result object

Value

A list containing the summary of the ValidMind test results

`vm`*Retrieve a validmind (vm) connection object using reticulate*

Description

Retrieve a validmind (vm) connection object using reticulate

Usage

```
vm(  
  api_key,  
  api_secret,  
  project,  
  python_version,  
  api_host = "http://localhost:3000/api/v1/tracking"  
)
```

Arguments

<code>api_key</code>	The ValidMind API key
<code>api_secret</code>	The ValidMind API secret
<code>project</code>	The ValidMind project
<code>python_version</code>	The Python Version to use
<code>api_host</code>	The ValidMind host, defaulting to local

Value

A validmind connection object, obtained from 'reticulate', which orchestrates the connection to the ValidMind API

Examples

```
## Not run:  
vm_r <- vm(  
  api_key="<your_api_key_here>",  
  api_secret="<your_api_secret_here>",  
  project="<your_project_id_here>",  
  python_version=python_version,  
  api_host="https://api.dev.vm.validmind.ai/api/v1/tracking"  
)  
  
## End(Not run)
```

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