Package 'validmind'

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Type Package

Title Interface to the 'ValidMind' Platform

Version 0.1.1

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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.

License AGPL-3

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

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Repository CRAN

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R topics documented:

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| build_r_plotly | *Build an R Plotly figure from a JSON representation* |

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 | *Produce RMarkdown-compatible output of all results* |

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

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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)
```

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summarize_metric_result
                          Provide a summarization of a single metric result

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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

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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

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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

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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

api_key	The ValidMind API key
api_secret	The ValidMind API secret
project	The ValidMind project
python_version	The Python Version to use
api_host	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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