

Package ‘plsmod’

September 6, 2022

Title Model Wrappers for Projection Methods

Version 1.0.0

Description Bindings for additional regression models for use with the 'parsnip' package, including ordinary and sparse partial least squares models for regression and classification (Rohart et al (2017) <[doi:10.1371/journal.pcbi.1005752](https://doi.org/10.1371/journal.pcbi.1005752)>).

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URL <https://plsmod.tidymodels.org>,
<https://github.com/tidymodels/plsmod>

BugReports <https://github.com/tidymodels/plsmod/issues>

Depends parsnip (>= 0.2.0), R (>= 3.4)

Imports dplyr, generics, magrittr, mixOmics, purrr, rlang, tibble,
tidyr

Suggests rmarkdown, covr, modeldata, spelling, testthat (>= 3.0.0)

biocViews mixOmics

Config/Needs/website tidyverse/tidytemplate

Config/testthat/edition 3

Encoding UTF-8

Language en-US

RoxygenNote 7.2.1.9000

NeedsCompilation no

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Repository CRAN

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multi_predict._mixo_pls

Model predictions across many sub-models

Description

Model predictions across many sub-models

Usage

```
## S3 method for class ``_mixo_pls``
multi_predict(object, new_data, num_comp = NULL, type = NULL, ...)

## S3 method for class ``_mixo_spls``
multi_predict(object, new_data, num_comp = NULL, type = NULL, ...)

## S3 method for class ``_mixo_plsda``
multi_predict(object, new_data, num_comp = NULL, type = NULL, ...)

## S3 method for class ``_mixo_splsda``
multi_predict(object, new_data, num_comp = NULL, type = NULL, ...)
```

Arguments

object	An object of class <code>model_fit</code>
new_data	A rectangular data object, such as a data frame.
num_comp	An integer vector for the number of PLS terms to retain.
type	A single character value or NULL. Possible values are "numeric", "class", or "prob". When NULL, <code>predict()</code> will choose an appropriate value based on the model's mode.
...	Not currently used.

tidy.mixo_pls	<i>Tidy methods for pls and spls objects</i>
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Description

Tidy methods for pls and spls objects

Usage

```
## S3 method for class 'mixo_pls'  
tidy(x, ...)  
  
## S3 method for class 'mixo_spls'  
tidy(x, ...)
```

Arguments

x	An object with class mixo_pls or mixo_spls.
...	Not currently used.

Value

A tibble with columns terms (the predictor names), value (the loadings), type (either "predictors" or "outcomes"), and component (the component number).

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