Package 'plsmod'

October 14, 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 spare partial least squares models for regression and classification (Rohart et al (2017) <doi:10.1371/journal.pcbi.1005752>).

License MIT + file LICENSE

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

Author Max Kuhn [aut, cre] (<https://orcid.org/0000-0003-2402-136X>), RStudio [cph, fnd]

Maintainer Max Kuhn <max@rstudio.com>

Repository CRAN

Date/Publication 2022-09-06 19:20:02 UTC

R **topics documented:**

---

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 model_fit
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, predict() will choose an appropriate value based on the model's mode.
...	Not currently used.

---

tidy.mixo_pls *Tidy methods for pls and spls objects*

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).

Index