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,
tidy
Suggests  rmarkdown, covr, modeldata, spelling, testthat (>= 3.0.0)
biocViews  mixOmics
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multi_predict._mixo_pls

**R topics documented:**

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## multi_predict._mixo_pls

*Model predictions across many sub-models*

### Description

Model predictions across many sub-models

### Usage

```r
## 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 methods for pls and spls objects

Description

Tidy methods for pls and spls objects

Usage

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

```r
## 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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