

Package ‘purge’

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Type Package

Title Purge Training Data from Models

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Description Enables the removal of training data from fitted R models while retaining predict functionality. The purged models are more portable as their memory footprints do not scale with the training sample size.

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LazyData TRUE

Imports methods

Suggests testthat, survival, lme4 (>= 1.1-8), ranger, randomForest, rpart

NeedsCompilation no

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purge

Purge training data from a model

Description

Most R model implementations store the training data within the fitted object, often many times. It can be useful to remove the embedded data for portability, especially if the only required functionality is to predict on new data.

Usage

```
purge(model)

## Default S3 method:
purge(model)

## S3 method for class 'glm'
purge(model)

## S3 method for class 'lm'
purge(model)

## S3 method for class 'merMod'
purge(model)

## S3 method for class 'glmerMod'
purge(model)

## S3 method for class 'rpart'
purge(model)

## S3 method for class 'randomForest'
purge(model)

## S3 method for class 'ranger'
purge(model)

## S3 method for class 'coxph'
purge(model)
```

Arguments

model A fitted R model object

Value

A fitted R model object, purged of its training data, but retaining its predict functionality on new data

Methods (by class)

- `default`: Default `purge` returns a copy of the model
- `glm`: Purges a `glm` model
- `lm`: Purges an `lm` model
- `merMod`: Purges a `merMod`, linear mixed-effects model
- `glmerMod`: Purges a `glmerMod`, generalized linear mixed-effects model
- `rpart`: Purges an `rpart` model
- `randomForest`: Purges a random forest model
- `ranger`: Purges a `ranger` model for classification, regression, or survival
- `coxph`: Purges a `coxph` model

Examples

```
x <- rnorm(1000)
y <- x + rnorm(1000)
unpurged.model <- lm(y ~ x)
purged.model <- purge(unpurged.model)
object.size(unpurged.model)
object.size(purged.model)
```

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