Package 'radiant.model'

November 13, 2016

```
Type Package
Title Model Menu for Radiant: Business Analytics using R and Shiny
Version 0.6.6
Date 2016-11-1
Description The Radiant Model menu includes interfaces for linear and logistic
      regression, Neural Networks, model evaluation, decision analysis, and
      simulation. The application extends the functionality in radiant.data.
Depends R (>= 3.3.0),
      radiant.data (>= 0.6.6)
Imports radiant.basics (>= 0.6.0),
      shiny (>= 0.14),
      nnet (>= 7.3.12),
      NeuralNetTools (>= 1.4.0),
      sandwich (>= 2.3.4),
      car (>= 2.1.3),
      ggplot2 (>= 2.1.0),
      gridExtra (>= 2.0.0),
      data.tree (>= 0.4.0),
      yam1 (>= 2.1.13),
      stringr (>= 1.1.0),
      pryr (>= 0.1.2),
      lubridate (>= 1.6.0),
      tidyr (>= 0.6.0),
      dplyr (>= 0.5),
      magrittr (>= 1.5),
      DiagrammeR(>= 0.8.4),
      import (>= 1.1.0),
      e1071 (>= 1.6.7),
      methods
Suggests testthat (>= 1.0.0),
      covr (>= 1.2.0)
URL https://github.com/radiant-rstats/radiant.model
BugReports https://github.com/radiant-rstats/radiant.model/issues
License AGPL-3 | file LICENSE
LazyData true
RoxygenNote 5.0.1
```

R topics documented:

ann	3
	4
$\boldsymbol{\varepsilon}$	5
-	5
confusion	6
crs	7
direct_marketing	7
· · · · · · · · · · · · · · · · · · ·	8
	8
- 1	9
	9
evalreg	
find max	
find min	
houseprices	
ideal	
logistic	
nb	
plot.confusion	
plot.crs	
plot.dtree	
plot.evalbin	
plot.evalreg	
plot.logistic	
plot.model.predict	0
plot.nb	1
plot.nb.predict	1
plot.regress	2
plot.repeater	3
plot.simulater	4
predict.ann	
predict.logistic	
predict.model	
predict.naiveBayes	
predict.nb	
predict.regress	
print.ann.predict	
•	
print.logistic.predict	
print.model.predict	
print.nb.predict	
print.regress.predict	
radiant.model	
radiant.model-deprecated	2
regress	2
render.DiagrammeR	3
repeater	4
scaledf	5
sdw	5
sensitivity	

ann 3

sensi	tivity.dtree	 		 															 36
simu	later	 		 															 37
	cleaner																		
	splitter																		
	summary																		
	.model																		
	.model.predict																		
	.nb.predict																		
	_ann																		
	_crs																		
	_glm																		
	_reg																		
	nary.ann																		
	nary.crs																		
	nary.dtree																		
	nary.evalbin .																		
	nary.evalreg .																		
	nary.logistic .																		
	nary.nb																		
	nary.regress .																		
	nary.repeater .																		
	nary.simulater																		
	specs																		
	check																		
var_c		 	•	 	•	•	 •	 •	 •	•	 •	•	 •	•	•	•	•	•	 51
																			52

ann

Index

Artificial Neural Networks

Description

Artificial Neural Networks

Usage

```
ann(dataset, rvar, evar, type = "classification", lev = "", size = 1,
  decay = 0.5, wts = "None", seed = NA, check = "standardize",
  data_filter = "")
```

Arguments

dataset	Dataset name (string). This can be a dataframe in the global environment or an element in an r_data list from Radiant
rvar	The response variable in the logit (probit) model
evar	Explanatory variables in the model
type	Model type (i.e., "classification" or "regression")
lev	The level in the response variable defined as _success_
size	Number of units (nodes) in the hidden layer
decay	Paramater decay

4 auc

wts Weights to use in estimation

seed Random seed to use as the starting point

check Optional estimation parameters ("standardize" is the default)

expression should be a string (e.g., "price > 10000")

Details

```
See http://radiant-rstats.github.io/docs/model/ann.html for an example in Radiant
```

Value

A list with all variables defined in ann as an object of class ann

See Also

```
summary.ann to summarize results plot.ann to plot results predict.ann for prediction
```

Examples

```
result <- ann("titanic", "survived", c("pclass", "sex"), lev = "Yes")
result <- ann("titanic", "survived", c("pclass", "sex"))
result <- ann("diamonds", "price", c("carat", "clarity"), type = "regression")</pre>
```

auc

Area Under the Curve (AUC)

Description

Area Under the Curve (AUC)

Usage

```
auc(pred, rvar, lev)
```

Arguments

pred Prediction or predictor rvar Response variable

lev The level in the response variable defined as _success_

Details

See http://radiant-rstats.github.io/docs/model/evalbin.html for an example in Radiant

Value

AUC statistic

catalog 5

See Also

```
evalbin to calculate results
summary.evalbin to summarize results
plot.evalbin to plot results
```

Examples

```
auc(runif(nrow(mtcars)), mtcars$vs, 1)
```

catalog

Catalog sales for men's and women's apparel

Description

Catalog sales for men's and women's apparel

Usage

```
data(catalog)
```

Format

A data frame with 200 rows and 5 variables

Details

Description provided in attr(catalog, "description")

confint_robust

Confidence interval for robust estimators

Description

Confidence interval for robust estimators

Usage

```
confint_robust(object, parm, level = 0.95, vcov = NULL, ...)
```

Additional argument(s) for methods

Arguments

object	A fitted model object
parm	A specification of which parameters are to be given confidence intervals, either a vector of numbers or a vector of names. If missing, all parameters are considered
level	The confidence level required
vcov	Covariance matrix generated by, e.g., sandwich::vcovHC

6 confusion

Details

Wrapper for confint.default with robust standard errors. See http://stackoverflow.com/a/3820125/1974918

confusion

Confusion matrix

Description

Confusion matrix

Usage

```
confusion(dataset, pred, rvar, lev = "", margin = 1, cost = 1,
  train = "", method = "xtile", data_filter = "", ...)
```

Arguments

dataset	Dataset name (string). This can be a dataframe in the global environment or an element in an r -data list from Radiant
pred	Predictions or predictors
rvar	Response variable
lev	The level in the response variable defined as _success_
margin	Margin on each customer purchase
cost	Cost for each connection (e.g., email or mailing)
train	Use data from training ("Training"), validation ("Validation"), both ("Both"), or all data ("All") to evaluate model evalbin
method	Use either ntile or xtile to split the data (default is xtile)
data_filter	Expression entered in, e.g., Data > View to filter the dataset in Radiant. The expression should be a string (e.g., "price > 10000")
	further arguments passed to or from other methods

Details

 $See \ http://radiant-rstats.github.io/docs/model/evalbin.html \ for \ an \ example \ in \ Radiant$

Value

A list of results

See Also

```
summary.evalbin to summarize results plot.evalbin to plot results
```

Examples

```
result <- evalbin("titanic", c("age", "fare"), "survived")</pre>
```

crs 7

crs

Collaborative Filtering

Description

Collaborative Filtering

Usage

```
crs(dataset, id, prod, pred, rate, name = "pred", data_filter = "")
```

Arguments

dataset	Dataset name (string). This can be a dataframe in the global environment or an element in an r_data list from Radiant
id	String with name of the variable containing user ids
prod	String with name of the variable with product ids
pred	Products to predict for
rate	String with name of the variable with product ratings
name	Name for the prediction variable
data_filter	Expression entered in, e.g., Data > View to filter the dataset in Radiant. The

Details

See http://radiant-rstats.github.io/docs/model/crs.html for an example in Radiant

expression should be a string (e.g., "price > 10000")

Value

A data.frame with the original data and a new column with predicted ratings

direct_marketing Direct	marketing data	
-------------------------	----------------	--

Description

Direct marketing data

Usage

```
data(direct_marketing)
```

Format

A data frame with 1,000 rows and 12 variables

Details

Description provided in attr(direct_marketing,"description")

8 dtree_parser

dtree

Create a decision tree

Description

Create a decision tree

Usage

```
dtree(y1, opt = "max", base = character(0))
```

Arguments

yl A yaml string or a list (e.g., from yaml::yaml.load_file())

opt Find the maximum ("max") or minimum ("min") value for each decision node base List of variable definitions from a base tree used when calling a sub-tree

Details

See http://radiant-rstats.github.io/docs/model/dtree.html for an example in Radiant

Value

A list with the initial tree and the calculated tree

See Also

```
summary.dtree to summarize results plot.dtree to plot results sensitivity.dtree to plot results
```

dtree_parser

Parse yaml input for dtree to provide (more) useful error messages

Description

Parse yaml input for dtree to provide (more) useful error messages

Usage

```
dtree_parser(y1)
```

Arguments

уl

A yaml string

Details

See http://radiant-rstats.github.io/docs/model/dtree.html for an example in Radiant

dvd 9

Value

An updated yaml string or a vector messages to return to the users

See Also

```
dtree to calculate tree
summary.dtree to summarize results
plot.dtree to plot results
```

dvd

Data on DVD sales

Description

Data on DVD sales

Usage

data(dvd)

Format

A data frame with 20,000 rows and 4 variables

Details

Binary purchase response to coupon value. Description provided in attr(dvd,"description")

evalbin

Model evalbin

Description

Model evalbin

Usage

```
evalbin(dataset, pred, rvar, lev = "", qnt = 10, margin = 1, cost = 1,
    train = "", method = "xtile", data_filter = "")
```

10 evalreg

Arguments

dataset Dataset name (string). This can be a dataframe in the global environment or an element in an r_data list from Radiant Predictions or predictors pred Response variable rvar The level in the response variable defined as _success_ lev Number of bins to create qnt margin Margin on each customer purchase Cost for each connection (e.g., email or mailing) cost Use data from training ("Training"), validation ("Validation"), both ("Both"), or train all data ("All") to evaluate model evalbin method Use either ntile or xtile to split the data (default is xtile) Expression entered in, e.g., Data > View to filter the dataset in Radiant. The data_filter

Details

See http://radiant-rstats.github.io/docs/model/evalbin.html for an example in Radiant

expression should be a string (e.g., "price > 10000")

Value

A list of results

See Also

```
summary.evalbin to summarize results plot.evalbin to plot results
```

Examples

```
result <- evalbin("titanic", c("age","fare"), "survived")</pre>
```

evalreg	Model evalreg

Description

Model evalreg

Usage

```
evalreg(dataset, pred, rvar, train = "", data_filter = "")
```

find_max 11

Arguments

dataset Dataset name (string). This can be a dataframe in the global environment or an

element in an r_data list from Radiant

pred Predictions or predictors

rvar Response variable

train Use data from training ("Training"), validation ("Validation"), both ("Both"), or

all data ("All") to evaluate model evalreg

expression should be a string (e.g., "price > 10000")

Details

See http://radiant-rstats.github.io/docs/model/evalreg.html for an example in Radiant

Value

A list of results

See Also

```
summary.evalreg to summarize results
plot.evalreg to plot results
```

find_max

Find maxium value of a vector

Description

Find maxium value of a vector

Usage

```
find_max(var, val = "")
```

Arguments

var Variable to find the maximum for

val Variable to find the value for at the maxium of var

Value

Value of val at the maximum of var

houseprices

find_min

Find minimum value of a vector

Description

Find minimum value of a vector

Usage

```
find_min(var, val = "")
```

Arguments

var Variable to find the minimum for

val Variable to find the value for at the maxium of var

Value

Value of val at the minimum of var

houseprices

Houseprices

Description

Houseprices

Usage

```
data(houseprices)
```

Format

A data frame with 128 home sales and 6 variables

Details

Description provided in attr(houseprices,"description")

ideal 13

ideal	Ideal data for linear regression
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Description

Ideal data for linear regression

Usage

```
data(ideal)
```

Format

A data frame with 1,000 rows and 4 variables

Details

Description provided in attr(ideal, "description")

logistic

Generalized linear models (GLM)

Description

Generalized linear models (GLM)

Usage

```
logistic(dataset, rvar, evar, lev = "", int = "", wts = "None",
  check = "", data_filter = "")
```

Arguments

dataset	Dataset name (string). This can be a dataframe in the global environment or an element in an r_data list from Radiant
rvar	The response variable in the logit (probit) model
evar	Explanatory variables in the model
lev	The level in the response variable defined as _success_
int	Interaction term to include in the model
wts	Weights to use in estimation
check	Optional estimation parameters. "standardize" to output standardized coefficient estimates. "stepwise" to apply step-wise selection of variables
data_filter	Expression entered in, e.g., Data > View to filter the dataset in Radiant. The expression should be a string (e.g., "price > 10000")

Details

See http://radiant-rstats.github.io/docs/model/logistic.html for an example in Radiant

14 nb

Value

A list with all variables defined in logistic as an object of class logistic

See Also

```
summary.logistic to summarize the results
plot.logistic to plot the results
predict.logistic to generate predictions
plot.model.predict to plot prediction output
```

Examples

```
result <- logistic("titanic", "survived", c("pclass", "sex"), lev = "Yes")
result <- logistic("titanic", "survived", c("pclass", "sex"))</pre>
```

nb

Naive Bayes using e1071::naiveBayes

Description

Naive Bayes using e1071::naiveBayes

Usage

```
nb(dataset, rvar, evar, lev = "", laplace = 0, data_filter = "")
```

Arguments

dataset	Dataset name (string). This can be a dataframe in the global environment or an element in an r_data list from Radiant
rvar	The response variable in the logit (probit) model
evar	Explanatory variables in the model
lev	The level in the response variable defined as _success_
laplace	Positive double controlling Laplace smoothing. The default (0) disables Laplace smoothing.
data_filter	Expression entered in, e.g., Data > View to filter the dataset in Radiant. The

Details

 $See \ http://radiant-rstats.github.io/docs/model/naive bayes.html \ for \ an \ example \ in \ Radiant$

expression should be a string (e.g., "price > 10000")

Value

A list with all variables defined in nb as an object of class nb

plot.ann 15

See Also

```
summary.nb to summarize results
plot.nb to plot results
predict.nb for prediction
```

Examples

```
result <- nb("titanic", "survived", c("pclass", "sex", "age"))</pre>
```

plot.ann

Plot method for the ann function

Description

Plot method for the ann function

Usage

```
## S3 method for class 'ann'
plot(x, shiny = FALSE, ...)
```

Arguments

x Return value from annshiny Did the function call originate inside a shiny appfurther arguments passed to or from other methods

Details

See http://radiant-rstats.github.io/docs/model/ann.html for an example in Radiant

See Also

```
ann to generate results
summary.ann to summarize results
predict.ann for prediction
```

Examples

```
result <- ann("titanic", "survived", c("pclass", "sex"), lev = "Yes")
plot(result, plots = c("imp", "net"))</pre>
```

16 plot.crs

plot.confusion	Plot method for the confusion matrix
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Description

Plot method for the confusion matrix

Usage

```
## S3 method for class 'confusion'
plot(x, scale_y = FALSE, shiny = FALSE, ...)
```

Arguments

```
    x Return value from evalreg
    scale_y Free scale in faceted plot of the confusion matrix (TRUE or FALSE)
    shiny Did the function call originate inside a shiny app
    further arguments passed to or from other methods
```

Details

See http://radiant-rstats.github.io/docs/model/evalreg.html for an example in Radiant

See Also

```
evalreg to generate results summary. evalreg to summarize results
```

plot.crs

Plot method for the crs function

Description

Plot method for the crs function

Usage

```
## S3 method for class 'crs'
plot(x, shiny = FALSE, ...)
```

Arguments

x	Return value from crs
shiny	Did the function call originate inside a shiny app
	further arguments passed to or from other methods

Details

See http://radiant-rstats.github.io/docs/model/crs.html for an example in Radiant

plot.dtree 17

See Also

```
crs to generate results
summary.crs to summarize results
```

plot.dtree

Plot method for the dtree function

Description

Plot method for the dtree function

Usage

```
## S3 method for class 'dtree'
plot(x, symbol = "$", dec = 2, final = FALSE,
  orient = "LR", shiny = FALSE, ...)
```

Arguments

X	Return value from dtree
symbol	Monetary symbol to use (\$ is the default)
dec	Decimal places to round results to
final	If TRUE plot the decision tree solution, else the initial decision tree
orient	Plot orientation: LR for vertical and TD for horizontal
shiny	Did the function call originate inside a shiny app
	further arguments passed to or from other methods

Details

See http://radiant-rstats.github.io/docs/model/dtree.html for an example in Radiant

See Also

```
dtree to generate the result
summary.dtree to summarize results
sensitivity.dtree to plot results
```

18 plot.evalreg

plot.evalbin

Plot method for the evalbin function

Description

Plot method for the evalbin function

Usage

```
## S3 method for class 'evalbin'
plot(x, plots = c("lift", "gains"), shiny = FALSE, ...)
```

Arguments

```
    x Return value from evalbin
    plots Plots to return
    shiny Did the function call originate inside a shiny app
    further arguments passed to or from other methods
```

Details

See http://radiant-rstats.github.io/docs/model/evalbin.html for an example in Radiant

See Also

```
evalbin to generate results summary. evalbin to summarize results
```

Examples

```
evalbin("titanic", "age", "survived") %>% plot
evalbin("titanic", c("age", "fare"), "survived") %>% plot
evalbin("titanic", c("age", "fare"), "survived", method = "xtile") %>% plot
evalbin("titanic", c("age", "fare"), "survived") %>% summary
```

plot.evalreg

Plot method for the evalreg function

Description

Plot method for the evalreg function

Usage

```
## S3 method for class 'evalreg'
plot(x, shiny = FALSE, ...)
```

plot.logistic 19

Arguments

X	Return value from evalreg
shiny	Did the function call originate inside a shiny app
	further arguments passed to or from other methods

Details

 $See \ http://radiant-rstats.github.io/docs/model/evalreg.html \ for \ an \ example \ in \ Radiant$

See Also

```
evalreg to generate results summary. evalreg to summarize results
```

plot.logistic

Plot method for the logistic function

Description

Plot method for the logistic function

Usage

```
## S3 method for class 'logistic'
plot(x, plots = "", conf_lev = 0.95, intercept = FALSE,
    shiny = FALSE, custom = FALSE, ...)
```

Arguments

x	Return value from logistic
plots	Plots to produce for the specified GLM model. Use "" to avoid showing any plots (default). "dist" shows histograms (or frequency bar plots) of all variables in the model. "scatter" shows scatter plots (or box plots for factors) for the response variable with each explanatory variable. "dashboard" is a series of four plots used to visually evaluate model. "coef" provides a coefficient plot
conf_lev	Confidence level to use for coefficient and odds confidence intervals (.95 is the default)
intercept	Include the intercept in the coefficient plot (TRUE or FALSE). FALSE is the default
shiny	Did the function call originate inside a shiny app
custom	Logical (TRUE, FALSE) to indicate if ggplot object (or list of ggplot objects) should be returned. This opion can be used to customize plots (e.g., add a title, change x and y labels, etc.). See examples and http://docs.ggplot2.org/ for options.
	further arguments passed to or from other methods

Details

See http://radiant-rstats.github.io/docs/model/logistic.html for an example in Radiant

20 plot.model.predict

See Also

```
logistic to generate results
plot.logistic to plot results
predict.logistic to generate predictions
plot.model.predict to plot prediction output
```

Examples

```
result <- logistic("titanic", "survived", c("pclass", "sex"), lev = "Yes")
plot(result, plots = "coef")</pre>
```

plot.model.predict

Plot method for model.predict functions

Description

Plot method for model.predict functions

Usage

```
## S3 method for class 'model.predict'
plot(x, xvar = "", facet_row = ".",
  facet_col = ".", color = "none", conf_lev = 0.95, ...)
```

Arguments

X	Return value from predict functions (e.g., predict.regress)
xvar	Variable to display along the X-axis of the plot
facet_row	Create vertically arranged subplots for each level of the selected factor variable
facet_col	Create horizontally arranged subplots for each level of the selected factor variable
color	Adds color to a scatter plot to generate a heat map. For a line plot one line is created for each group and each is assigned a different colour
conf_lev	Confidence level to use for prediction intervals (.95 is the default)
	further arguments passed to or from other methods

See Also

```
predict.regress to generate predictions
predict.logistic to generate predictions
```

Examples

```
regress("diamonds", "price", c("carat", "clarity")) %>%
  predict(pred_cmd = "carat = 1:10") %>%
  plot(xvar = "carat")
logistic("titanic", "survived", c("pclass", "sex", "age"), lev = "Yes") %>%
  predict(pred_cmd="pclass=levels(pclass), sex=levels(sex), age=seq(0,100,20)") %>%
  plot(xvar = "age", color = "sex", facet_col = "pclass")
```

plot.nb 21

plot.nb

Plot method for the nb function

Description

Plot method for the nb function

Usage

```
## S3 method for class 'nb'
plot(x, shiny = FALSE, ...)
```

Arguments

```
x Return value from nbshiny Did the function call originate inside a shiny appfurther arguments passed to or from other methods
```

Details

 $See \ http://radiant-rstats.github.io/docs/model/nb.html \ for \ an \ example \ in \ Radiant$

See Also

```
nb to generate results
summary.nb to summarize results
predict.nb for prediction
```

Examples

```
result <- nb("titanic", "survived", c("pclass","sex"))
plot(result)
result <- nb("titanic", "pclass", c("sex","age"))
plot(result)</pre>
```

plot.nb.predict

Plot method for nb.predict function

Description

Plot method for nb.predict function

Usage

```
## $3 method for class 'nb.predict'
plot(x, xvar = "", facet_row = ".", facet_col = ".",
    color = ".class", ...)
```

22 plot.regress

Arguments

Х	Return value from predict function predict.nb
xvar	Variable to display along the X-axis of the plot
facet_row	Create vertically arranged subplots for each level of the selected factor variable
facet_col	Create horizontally arranged subplots for each level of the selected factor variable
color	Adds color to a scatter plot to generate a heat map. For a line plot one line is created for each group and each is assigned a different colour
	further arguments passed to or from other methods

See Also

```
predict.nb to generate predictions
```

Examples

```
result <- nb("titanic", "survived", c("pclass", "sex", "age"))
pred <- predict(result, pred_cmd="pclass=levels(pclass), sex=levels(sex), age=seq(0,100,20)")
plot(pred, xvar = "age", facet_col = "sex", facet_row = "pclass")
pred <- predict(result, pred_data="titanic")
plot(pred, xvar = "age", facet_col = "sex")</pre>
```

plot.regress

Plot method for the regress function

Description

Plot method for the regress function

Usage

```
## S3 method for class 'regress'
plot(x, plots = "", lines = "", conf_lev = 0.95,
  intercept = FALSE, shiny = FALSE, custom = FALSE, ...)
```

Arguments

x Return value from regress

plots

Regression plots to produce for the specified regression model. Enter "" to avoid showing any plots (default). "dist" to shows histograms (or frequency bar plots) of all variables in the model. "correlations" for a visual representation of the correlation matrix selected variables. "scatter" to show scatter plots (or box plots for factors) for the response variable with each explanatory variable. "dashboard" for a series of six plots that can be used to evaluate model fit visually. "resid_pred" to plot the explanatory variables against the model residuals. "coef" for a coefficient plot with adjustable confidence intervals. "leverage" to show leverage plots for each explanatory variable

plot.repeater 23

lines	Optional lines to include in the select plot. "line" to include a line through a scatter plot. "loess" to include a polynomial regression fit line. To include both use $c("line","loess")$
conf_lev	Confidence level used to estimate confidence intervals (.95 is the default)
intercept	Include the intercept in the coefficient plot (TRUE, FALSE). FALSE is the default
shiny	Did the function call originate inside a shiny app
custom	Logical (TRUE, FALSE) to indicate if ggplot object (or list of ggplot objects) should be returned. This opion can be used to customize plots (e.g., add a title, change x and y labels, etc.). See examples and http://docs.ggplot2.org/for options.
	further arguments passed to or from other methods

Details

See http://radiant-rstats.github.io/docs/model/regress.html for an example in Radiant

See Also

```
regress to generate the results
summary.regress to summarize results
predict.regress to generate predictions
```

Examples

```
result <- regress("diamonds", "price", c("carat","clarity"))
plot(result, plots = "dashboard", lines = c("line","loess"))
plot(result, plots = "coef", conf_lev = .99, intercept = TRUE)
plot(result, plots = "dist")
plot(result, plots = "scatter", lines = c("line","loess"))
plot(result, plots = "correlations")
plot(result, plots = "resid_pred", lines = "line")</pre>
```

plot.repeater

Plot repeated simulation

Description

Plot repeated simulation

Usage

```
## S3 method for class 'repeater'
plot(x, shiny = FALSE, ...)
```

Arguments

X	Return value from repeater
shiny	Did the function call originate inside a shiny app
	further arguments passed to or from other methods

24 predict.ann

plot.simulater

Plot method for the simulater function

Description

Plot method for the simulater function

Usage

```
## S3 method for class 'simulater'
plot(x, shiny = FALSE, ...)
```

Arguments

```
x Return value from simulatershiny Did the function call originate inside a shiny appfurther arguments passed to or from other methods
```

Details

See http://radiant-rstats.github.io/docs/model/simulater for an example in Radiant

See Also

```
simulater to generate the result summary. simulater to summarize results
```

Examples

predict.ann

Predict method for the ann function

Description

Predict method for the ann function

Usage

```
## S3 method for class 'ann'
predict(object, pred_data = "", pred_cmd = "",
    conf_lev = 0.95, se = FALSE, dec = 3, ...)
```

predict.logistic 25

Arguments

object	Return value from ann
pred_data	Provide the name of a dataframe to generate predictions (e.g., "titanic"). The dataset must contain all columns used in the estimation
pred_cmd	Generate predictions using a command. For example, 'pclass = levels(pclass)' would produce predictions for the different levels of factor 'pclass'. To add another variable use a ',' (e.g., 'pclass = levels(pclass), age = $seq(0,100,20)$ ')
conf_lev	Confidence level used to estimate confidence intervals (.95 is the default)
se	Logical that indicates if prediction standard errors should be calculated (default = FALSE)
dec	Number of decimals to show
• • •	further arguments passed to or from other methods

Details

See http://radiant-rstats.github.io/docs/model/ann.html for an example in Radiant

See Also

```
ann to generate the result summary. ann to summarize results
```

Examples

```
result <- ann("titanic", "survived", c("pclass", "sex"), lev = "Yes")
predict(result, pred_cmd = "pclass = levels(pclass)")</pre>
```

predict.logistic

Predict method for the logistic function

Description

Predict method for the logistic function

Usage

```
## S3 method for class 'logistic'
predict(object, pred_data = "", pred_cmd = "",
    conf_lev = 0.95, se = FALSE, dec = 3, ...)
```

Arguments

object	Return value from logistic
pred_data	Provide the name of a dataframe to generate predictions (e.g., "titanic"). The dataset must contain all columns used in the estimation
pred_cmd	Generate predictions using a command. For example, 'pclass = levels(pclass)' would produce predictions for the different levels of factor 'pclass'. To add another variable use a ',' (e.g., 'pclass = levels(pclass), age = $seq(0.100.20)$ ')

26 predict.model

conf_lev	Confidence level used to estimate confidence intervals (.95 is the default)
se	Logical that indicates if prediction standard errors should be calculated (default = FALSE)
dec	Number of decimals to show
	further arguments passed to or from other methods

Details

```
See http://radiant-rstats.github.io/docs/model/logistic.html for an example in Radi-
ant
```

See Also

```
logistic to generate the result
summary.logistic to summarize results
plot.logistic to plot results
plot.model.predict to plot prediction output
```

Examples

```
result <- logistic("titanic", "survived", c("pclass","sex"), lev = "Yes")</pre>
predict(result, pred_cmd = "pclass = levels(pclass)")
logistic("titanic", "survived", c("pclass", "sex"), lev = "Yes") \ \%\!\!>\!\%
 predict(pred_cmd = "sex = c('male', 'female')")
logistic("titanic", "survived", c("pclass", "sex"), lev = "Yes") %>%
 predict(pred_data = "titanic")
```

predict.model

Predict method for model functions

Description

Predict method for model functions

Usage

```
## S3 method for class 'model'
predict(object, pfun, mclass, pred_data = "", pred_cmd = "",
  conf_lev = 0.95, se = FALSE, dec = 3, ...)
```

Arguments

object	Return value from regress
pfun	Function to use for prediction
mclass	Model class to attach
pred_data	Name of the dataset to use for prediction
pred_cmd	Command used to generate data for prediction
conf_lev	Confidence level used to estimate confidence intervals (.95 is the default)

predict.naiveBayes 27

se	Logical that indicates if prediction standard errors should be calculated (default = FALSE)
dec	Number of decimals to show
	further arguments passed to or from other methods

Details

See http://radiant-rstats.github.io/docs/model/regress.html for an example in Radiant

predict.naiveBayes Place holder for predict.naiveBayes until e1071 is updated to allow logical in prediction	l to allow
--	------------

Description

Place holder for predict.naiveBayes until e1071 is updated to allow logical in prediction

Usage

```
## S3 method for class 'naiveBayes'
predict(object, newdata, type = c("class", "raw"),
    threshold = 0.001, eps = 0, ...)
```

Arguments

object	An object of class "naiveBayes".
newdata	A dataframe with new predictors (with possibly fewer columns than the training data). Note that the column names of newdata are matched against the training data ones.
type	If "raw", the conditional a-posterior probabilities for each class are returned, and the class with maximal probability else
threshold	Value replacing cells with probabilities within eps range.
eps	Double for specifying an epsilon-range to apply laplace smoothing (to replace zero or close-zero probabilities by the shold.)
	Additional arguments

predict.nb Predict method for the nb function

Description

Predict method for the nb function

Usage

```
## $3 method for class 'nb'
predict(object, pred_data = "", pred_cmd = "",
    pred_names = "", dec = 3, ...)
```

28 predict.regress

Arguments

object	Return value from nb
pred_data	Provide the name of a dataframe to generate predictions (e.g., "titanic"). The dataset must contain all columns used in the estimation
pred_cmd	Generate predictions using a command. For example, 'pclass = levels(pclass)' would produce predictions for the different levels of factor 'pclass'. To add another variable use a ',' (e.g., 'pclass = levels(pclass), age = seq(0,100,20)')
pred_names	Names for the predictions to be stored. If one name is provided, only the first column of predictions is stored. If empty, the level in the response variable of the nb model will be used
dec	Number of decimals to show
	further arguments passed to or from other methods

Details

See http://radiant-rstats.github.io/docs/model/nb.html for an example in Radiant

See Also

```
nb to generate the result summary.nb to summarize results
```

Examples

```
result <- nb("titanic", "survived", c("pclass","sex","age"))
predict(result, pred_data = "titanic")
predict(result, pred_data = "titanic", pred_names = c("Yes","No"))
predict(result, pred_cmd = "pclass = levels(pclass)")
result <- nb("titanic", "pclass", c("survived","sex","age"))
predict(result, pred_data = "titanic")
predict(result, pred_data = "titanic", pred_names = c("1st","2nd","3rd"))
predict(result, pred_data = "titanic", pred_names = "")
predict(result, pred_data = "titanic", pred_names = NA)</pre>
```

predict.regress

Predict method for the regress function

Description

Predict method for the regress function

Usage

```
## S3 method for class 'regress'
predict(object, pred_data = "", pred_cmd = "",
    conf_lev = 0.95, se = TRUE, dec = 3, ...)
```

print.ann.predict 29

Arguments

object	Return value from regress
pred_data	Name of the dataset to use for prediction
pred_cmd	Command used to generate data for prediction
conf_lev	Confidence level used to estimate confidence intervals (.95 is the default)
se	Logical that indicates if prediction standard errors should be calculated (default = FALSE)
dec	Number of decimals to show
	further arguments passed to or from other methods

Details

See http://radiant-rstats.github.io/docs/model/regress.html for an example in Radiant

See Also

```
regress to generate the result
summary.regress to summarize results
plot.regress to plot results
```

Examples

```
result <- regress("diamonds", "price", c("carat","clarity"))
predict(result, pred_cmd = "carat = 1:10")
predict(result, pred_cmd = "clarity = levels(clarity)")
result <- regress("diamonds", "price", c("carat","clarity"), int = c("carat:clarity"))
dpred <<- getdata("diamonds") %>% slice(1:10)
predict(result, pred_data = "dpred")
rm(dpred, envir = .GlobalEnv)
```

print.ann.predict

Print method for predict.ann

Description

Print method for predict.ann

Usage

```
## S3 method for class 'ann.predict'
print(x, ..., n = 10)
```

Arguments

x Return value from prediction method... further arguments passed to or from other methods

n Number of lines of prediction results to print. Use -1 to print all lines

30 print.model.predict

```
print.logistic.predict
```

Print method for logistic.predict

Description

Print method for logistic.predict

Usage

```
## S3 method for class 'logistic.predict'
print(x, ..., n = 10)
```

Arguments

x Return value from prediction method

... further arguments passed to or from other methods

n Number of lines of prediction results to print. Use -1 to print all lines

print.model.predict Print method for the model prediction

Description

Print method for the model prediction

Usage

```
## S3 method for class 'model.predict'
print(x, ..., n = 10, header = "", lev = "")
```

Arguments

x R	eturn value fron	n prediction	method
X IX	cturii varue mon	i prediction	memou

... further arguments passed to or from other methods

n Number of lines of prediction results to print. Use -1 to print all lines

header Header line

lev The level in the response variable defined as _success_ for classification models

print.nb.predict 31

print.nb.predict

Print method for predict.nb

Description

Print method for predict.nb

Usage

```
## S3 method for class 'nb.predict' print(x, ..., n = 10)
```

Arguments

x Return value from prediction method

... further arguments passed to or from other methods

n Number of lines of prediction results to print. Use -1 to print all lines

print.regress.predict Print method for predict.regress

Description

Print method for predict.regress

Usage

```
## S3 method for class 'regress.predict'
print(x, ..., n = 10)
```

Arguments

x Return value from prediction method

... further arguments passed to or from other methods

n Number of lines of prediction results to print. Use -1 to print all lines

32 regress

radiant.model

radiant.model

Description

radiant.model

Launch Radiant in the default browser

Usage

```
radiant.model()
```

Details

See http://radiant-rstats.github.io/docs for documentation and tutorials

radiant.model-deprecated

Deprecated function(s) in the radiant.model package

Description

These functions are provided for compatibility with previous versions of radiant. They will eventually be removed.

Usage

```
regression(...)
```

Arguments

... Parameters to be passed to the updated functions

Details

regression is now a synonym for regress glm_reg is now a synonym for logistic performance is now a synonym for evalbin

regress

Linear regression using OLS

Description

Linear regression using OLS

render.DiagrammeR 33

Usage

```
regress(dataset, rvar, evar, int = "", check = "", data_filter = "")
```

Arguments

dataset Dataset name (string). This can be a dataframe in the global environment or an

element in an r_data list from Radiant

rvar The response variable in the regression evar Explanatory variables in the regression int Interaction terms to include in the model

check "standardize" to see standardized coefficient estimates. "stepwise" to apply step-

wise selection of variables in estimation

data_filter Expression entered in, e.g., Data > View to filter the dataset in Radiant. The

expression should be a string (e.g., "price > 10000")

Details

See http://radiant-rstats.github.io/docs/model/regress.html for an example in Radiant

Value

A list of all variables variables used in the regress function as an object of class regress

See Also

```
summary.regress to summarize results plot.regress to plot results predict.regress to generate predictions
```

Examples

```
result <- regress("diamonds", "price", c("carat","clarity"))
result <- regress("diamonds", "price", c("carat","clarity"), check = "standardize")</pre>
```

render.DiagrammeR

Method to render DiagrammeR plots

Description

Method to render DiagrammeR plots

Usage

```
## S3 method for class 'DiagrammeR'
render(object, ...)
```

Arguments

object DiagrammeR plot
... Additional arguments

34 repeater

rene	eater	

Repeat simulation

Description

Repeat simulation

Usage

```
repeater(nr = 12, vars = "", grid = "", sum_vars = "", byvar = "sim", fun = "sum_rm", form = "", seed = "", name = "", sim = "")
```

Arguments

nr	Number times to repeat the simulation
vars	Variables to use in repeated simulation
grid	Expression to use in grid search for constants
sum_vars	(Numeric) variables to summaries
byvar	Variable(s) to group data by before summarizing
fun	Functions to use for summarizing
form	A string with the formula to apply to the summarized data
seed	To repeat a simulation with the same randomly generated values enter a number into Random seed input box.
name	To save the simulated data for further analysis specify a name in the Sim name input box. You can then investigate the simulated data by choosing the specified name from the Datasets dropdown in any of the other Data tabs.
sim	Return value from the simulater function

Examples

scaledf 35

	_	
sca	l e	df

Center or standardize variables in a data frame

Description

Center or standardize variables in a data frame

Usage

```
scaledf(dat, center = TRUE, scale = TRUE, sf = 2, wts = NULL,
  calc = TRUE)
```

Arguments

dat	Data frame
center	Center data (TRUE or FALSE)
scale	Scale data (TRUE or FALSE)

sf Scaling factor (default is 2)

wts Weights to use (default is NULL for no weights)
calc Calculate mean and sd or use available attributes

Value

Scaled data frame

sdw

Standard deviation of weighted sum of variables

Description

Standard deviation of weighted sum of variables

Usage

```
sdw(...)
```

Arguments

... A matched number of weights and stocks

Value

A vector of standard deviation estimates

36 sensitivity.dtree

sensitivity

Method to evaluate sensitivity of an analysis

Description

Method to evaluate sensitivity of an analysis

Usage

```
sensitivity(object, ...)
```

Arguments

object Object of relevant class for which to evaluate sensitivity

... Additional arguments

sensitivity.dtree

Evaluate sensitivity of the decision tree

Description

Evaluate sensitivity of the decision tree

Usage

```
## S3 method for class 'dtree'
sensitivity(object, vars = NULL, decs = NULL,
    shiny = FALSE, ...)
```

Arguments

object Return value from dtree

vars Variables to include in the sensitivity analysis

decs Decisions to include in the sensitivity analysis

shiny Did the function call originate inside a shiny app

... Additional arguments

Details

```
See http://radiant-rstats.github.io/docs/model/dtree.html for an example in Radiant
```

See Also

```
dtree to generate the result
plot.dtree to summarize results
summary.dtree to summarize results
```

simulater 37

simulater	Simulate data for decision analysis

Description

Simulate data for decision analysis

Usage

```
simulater(const = "", lnorm = "", norm = "", unif = "", discrete = "",
binom = "", sequ = "", grid = "", data = "", form = "", seed = "",
name = "", nr = 1000, dat = NULL)
```

Arguments

٤	Guineiros	
	const	A string listing the constants to include in the analysis (e.g., " $cost = 3$; $size = 4$ ")
	lnorm	A string listing the log-normally distributed random variables to include in the analysis (e.g., "demand 2000 1000" where the first number is the log-mean and the second is the log-standard deviation)
	norm	A string listing the normally distributed random variables to include in the analysis (e.g., "demand 2000 1000" where the first number is the mean and the second is the standard deviation)
	unif	A string listing the uniformly distributed random variables to include in the analysis (e.g., "demand 0 1" where the first number is the minimum value and the second is the maximum value)
	discrete	A string listing the random variables with a discrete distribution to include in the analysis (e.g., "price $5\ 8\ .3\ .7$ " where the first set of numbers are the values and the second set the probabilities
	binom	A string listing the random variables with a binomail distribution to include in the analysis (e.g., "crash 100.01 ") where the first number is the number of trials and the second is the probability of success)
	sequ	A string listing the start and end for a sequence to include in the analysis (e.g., "trend 1 1001 "). The number of 'steps' is determined by the number of simulations.
	grid	A string listing the start, end, and step for a set of sequences to include in the analysis (e.g., "trend 1 $100\ 1$ "). The number of rows in the expanded will over ride the number of simulations
	data	Name of a dataset to be used in the calculations
	form	A string with the formula to evaluate (e.g., "profit = demand * (price - cost)")
	seed	To repeat a simulation with the same randomly generated values enter a number into Random seed input box.
	name	To save the simulated data for further analysis specify a name in the Sim name input box. You can then investigate the simulated data by choosing the specified name from the Datasets dropdown in any of the other Data tabs.
	nr	Number of simulations
	dat	Data list from previous simulation. Used by repeater function

38 sim_cleaner

Details

See $http://radiant-rstats.github.io/docs/model/simulater.html \ for \ an \ example \ in \ Radiant$

Value

A data.frame with the created variables

See Also

```
summary.simulater to summarize results
plot.simulater to plot results
```

Examples

sim_cleaner

Clean input command string

Description

Clean input command string

Usage

```
sim_cleaner(x)
```

Arguments

Χ

Input string

Value

Cleaned string

sim_splitter 39

sim_splitter

Split input command string

Description

Split input command string

Usage

```
sim_splitter(x, symbol = " ")
```

Arguments

x Input string

symbol Symbol used to split the command string

Value

Split input command string

sim_summary

Print simulation summary

Description

Print simulation summary

Usage

```
sim_summary(dat, dc = getclass(dat), fun = "", dec = 4)
```

Number of decimals to show

Arguments

dec

dat	Simulated data
dc	Variable classes
fun	Summary function to apply

40 store.model.predict

store.model

Store residuals from a model

Description

Store residuals from a model

Usage

```
## S3 method for class 'model'
store(object, ..., name = "residuals")
```

Arguments

object Return value from a model function

... Additional arguments

name Variable name(s) assigned to predicted values

Details

See http://radiant-rstats.github.io/docs/model/regress.html for an example in Radiant

Examples

```
regress(diamonds, rvar = "price", evar = c("carat","cut")) %>%
  store %>% head
```

store.model.predict

Store predicted values generated in model functions

Description

Store predicted values generated in model functions

Usage

```
## S3 method for class 'model.predict'
store(object, ..., data = attr(object, "pred_data"),
   name = "prediction")
```

Arguments

object Return value from mod	lel function
------------------------------	--------------

... Additional arguments

data Data or dataset name (e.g., data = mtcars or data = "mtcars")

name Variable name(s) assigned to predicted values

store.nb.predict 41

Details

 $See \ http://radiant-rstats.github.io/docs/model/regress.html\ for\ an\ example\ in\ Radiant-rstats.github.io/docs/model/regress.html$

Examples

```
regress(diamonds, rvar = "price", evar = c("carat","cut")) %>%
  predict(diamonds) %>%
  store(name = "pred, pred_low, pred_high") %>% head
```

store.nb.predict

Store predicted values generated in the nb function

Description

Store predicted values generated in the nb function

Usage

```
## S3 method for class 'nb.predict'
store(object, ..., data = attr(object, "pred_data"),
   name = "")
```

Arguments

object Return value from model function
... Additional arguments

data Data or dataset name (e.g., data = mtcars or data = "mtcars")

Name Variable name(s) assigned to predicted values. If empty, the levels of the response variable will be used

Details

See http://radiant-rstats.github.io/docs/model/nb.html for an example in Radiant

Examples

```
result <- nb("titanic", "survived", c("pclass", "sex", "age"))
pred <- predict(result, pred_data = "titanic")
store(pred, data = titanic, name = "pred") %>% head
store(pred, data = titanic) %>% head
```

store_crs

store_ann

Deprecated function to store predictions from an ANN

Description

Deprecated function to store predictions from an ANN

Usage

```
store_ann(object, data = object$dataset, name = paste0("predict_ann"))
```

Arguments

object Return value from predict.ann

data Dataset name

name Variable name assigned to the residuals or predicted values

Details

Use store.model.predict or store.model instead

store_crs

Store predicted values generated in the crs function

Description

Store predicted values generated in the crs function

Usage

```
store_crs(pred, data, name = "pred_crs")
```

Arguments

pred Return value from predict.nnet

data Dataset name

name Variable name assigned to the predicted values

Details

See http://radiant-rstats.github.io/docs/model/crs.html for an example in Radiant

store_glm 43

store_glm Deprecated futions	unction to store logistic regression residuals and predic-
------------------------------	--

Description

Deprecated function to store logistic regression residuals and predictions

Usage

```
store_glm(object, data = object$dataset, type = "residuals",
  name = paste0(type, "_logit"))
```

Arguments

object Return value from logistic or predict.logistic

data Dataset name

type Residuals ("residuals") or predictions ("predictions"). For predictions the dataset

name must be provided

name Variable name assigned to the residuals or predicted values

Details

Use store.model.predict or store.model instead

store_reg

Deprecated function to store regression residuals and predictions

Description

Deprecated function to store regression residuals and predictions

Usage

```
store_reg(object, data = object$dataset, type = "residuals",
  name = paste0(type, "_reg"))
```

Arguments

object Return value from regress or predict.regress

data Dataset name

type Residuals ("residuals") or predictions ("predictions"). For predictions the dataset

name must be provided

name Variable name assigned to the residuals or predicted values

Details

Use store.model.predict or store.model instead

44 summary.crs

summary.ann

Summary method for the ann function

Description

Summary method for the ann function

Usage

```
## S3 method for class 'ann'
summary(object, ...)
```

Arguments

object Return value from ann

... further arguments passed to or from other methods

Details

```
See http://radiant-rstats.github.io/docs/model/ann.html for an example in Radiant
```

See Also

```
ann to generate results
plot.ann to plot results
predict.ann for prediction
```

Examples

```
result <- ann("titanic", "survived", "pclass", lev = "Yes")
summary(result)</pre>
```

summary.crs

Summary method for Collaborative Filter

Description

Summary method for Collaborative Filter

Usage

```
## S3 method for class 'crs'
summary(object, ...)
```

Arguments

object Return value from crs

... further arguments passed to or from other methods

summary.dtree 45

Details

See http://radiant-rstats.github.io/docs/model/crs.html for an example in Radiant

See Also

```
crs to generate the results
plot.crs to plot results
```

summary.dtree

Summary method for the dtree function

Description

Summary method for the dtree function

Usage

```
## S3 method for class 'dtree'
summary(object, ...)
```

Arguments

object Return value from simulater

... further arguments passed to or from other methods

Details

See http://radiant-rstats.github.io/docs/model/dtree.html for an example in Radiant

See Also

```
dtree to generate the results
plot.dtree to plot results
sensitivity.dtree to plot results
```

summary.evalbin

Summary method for the evalbin function

Description

Summary method for the evalbin function

Usage

```
## S3 method for class 'evalbin'
summary(object, prn = TRUE, ...)
```

46 summary.evalreg

Arguments

object Return value from evalbin

prn Print model evalbin results (default is TRUE)

... further arguments passed to or from other methods

Details

See http://radiant-rstats.github.io/docs/model/evalbin.html for an example in Radiant

See Also

```
evalbin to summarize results plot.evalbin to plot results
```

Examples

```
evalbin("titanic", "age", "survived") %>% summary
evalbin("titanic", c("age","fare"), "survived") %>% summary
```

summary.evalreg

Summary method for the evalreg function

Description

Summary method for the evalreg function

Usage

```
## S3 method for class 'evalreg'
summary(object, ...)
```

Arguments

object Return value from evalreg

... further arguments passed to or from other methods

Details

See http://radiant-rstats.github.io/docs/model/evalreg.html for an example in Radiant

See Also

```
evalreg to summarize results plot.evalreg to plot results
```

summary.logistic 47

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summary	<i>,</i> I	OQ1	c t	10	٠

Summary method for the logistic function

Description

Summary method for the logistic function

Usage

```
## $3 method for class 'logistic'
summary(object, sum_check = "", conf_lev = 0.95,
  test_var = "", dec = 3, ...)
```

Arguments

object	Return value from logistic
sum_check	Optional output. "vif" to show multicollinearity diagnostics. "confint" to show coefficient confidence interval estimates. "odds" to show odds ratios and confidence interval estimates.
conf_lev	Confidence level to use for coefficient and odds confidence intervals (.95 is the default)
test_var	Variables to evaluate in model comparison (i.e., a competing models Chi-squared test)
dec	Number of decimals to show
	further arguments passed to or from other methods

Details

```
See http://radiant-rstats.github.io/docs/model/logistic.html for an example in Radiant
```

See Also

```
logistic to generate the results
plot.logistic to plot the results
predict.logistic to generate predictions
plot.model.predict to plot prediction output
```

Examples

```
result <- logistic("titanic", "survived", "pclass", lev = "Yes")
summary(result, test_var = "pclass")
res <- logistic("titanic", "survived", c("pclass", "sex"), int="pclass:sex", lev="Yes")
summary(res, sum_check = c("vif", "confint", "odds"))
titanic %>% logistic("survived", c("pclass", "sex", "age"), lev = "Yes") %>% summary("vif")
```

48 summary.regress

summary.nb

Summary method for the nb function

Description

Summary method for the nb function

Usage

```
## S3 method for class 'nb'
summary(object, dec = 3, ...)
```

Arguments

object Return value from nb

dec Decimals

... further arguments passed to or from other methods

Details

```
See http://radiant-rstats.github.io/docs/model/nb.html for an example in Radiant
```

See Also

```
nb to generate results
plot.nb to plot results
predict.nb for prediction
```

Examples

```
result <- nb("titanic", "survived", c("pclass", "sex", "age"))
summary(result)</pre>
```

summary.regress

Summary method for the regress function

Description

Summary method for the regress function

Usage

```
## $3 method for class 'regress'
summary(object, sum_check = "", conf_lev = 0.95,
  test_var = "", dec = 3, ...)
```

summary.repeater 49

Arguments

object	Return value from regress
sum_check	Optional output. "rsme" to show the root mean squared error and the standard deviation of the residuals. "sumsquares" to show the sum of squares table. "vif" to show multicollinearity diagnostics. "confint" to show coefficient confidence interval estimates.
conf_lev	Confidence level used to estimate confidence intervals (.95 is the default)
test_var	Variables to evaluate in model comparison (i.e., a competing models F-test)
dec	Number of decimals to show
	further arguments passed to or from other methods

Details

See http://radiant-rstats.github.io/docs/model/regress.html for an example in Radiant

See Also

```
regress to generate the results
plot.regress to plot results
predict.regress to generate predictions
```

Examples

```
result <- regress("diamonds", "price", c("carat","clarity"))
summary(result, sum_check = c("rmse","sumsquares","vif","confint"), test_var = "clarity")
result <- regress("ideal", "y", c("x1","x2"))
summary(result, test_var = "x2")
ideal %>% regress("y", "x1:x3") %>% summary
```

summary.repeater

Summarize repeated simulation

Description

Summarize repeated simulation

Usage

```
## S3 method for class 'repeater'
summary(object, dec = 4, ...)
```

Arguments

object Return value from repeater dec Number of decimals to show

... further arguments passed to or from other methods

50 test_specs

summary.simulater

Summary method for the simulater function

Description

Summary method for the simulater function

Usage

```
## S3 method for class 'simulater'
summary(object, dec = 4, ...)
```

Arguments

object Return value from simulater dec Number of decimals to show

... further arguments passed to or from other methods

Details

See $http://radiant-rstats.github.io/docs/model/simulater.html \ for \ an \ example \ in \ Radiant$

See Also

```
simulater to generate the results plot.simulater to plot results
```

Examples

```
result <- simulater(norm = "demand 2000 1000")
summary(result)</pre>
```

 $test_specs$

Add interaction terms to list of test variables if needed

Description

Add interaction terms to list of test variables if needed

Usage

```
test_specs(test_var, int)
```

Arguments

test_var List of variables to use for testing for regress or logistic

int Interaction terms specified

var_check 51

Details

See http://radiant-rstats.github.io/docs/model/regress.html for an example in Radiant

Value

A vector of variables names to test

Examples

```
test_specs("a", c("a:b", "b:c"))
```

var_check

Check if main effects for all interaction effects are included in the model If ':' is used to select a range _evar_ is updated

Description

Check if main effects for all interaction effects are included in the model If ':' is used to select a range _evar_ is updated

Usage

```
var_check(ev, cn, intv = "")
```

Arguments

ev List of explanatory variables provided to _regress_ or _logistic_

cn Column names for all explanatory variables in _dat_

intv Interaction terms specified

Details

See http://radiant-rstats.github.io/docs/model/regress.html for an example in Radiant

Value

'vars' is a vector of right-hand side variables, possibly with interactions, 'iv' is the list of explanatory variables, and into are interaction terms

Examples

```
var_check("a:d", c("a","b","c","d"))
var_check(c("a", "b"), c("a", "b"), "a:c")
```

Index

*Topic datasets	plot.nb, <i>15</i> , 21, <i>48</i>
catalog, 5	plot.nb.predict, 21
direct_marketing,7	plot.negress, 22, 29, 33, 49
dvd, 9	plot.regiess, 22, 29, 33, 49
houseprices, 12	plot.simulater, 24, 38, 50
ideal, 13	predict.ann, 4, 15, 24, 42, 44
ann, 3, 15, 25, 44	predict.logistic, 14, 20, 25, 43, 47
auc, 4	predict.model, 26
440, 1	predict.naiveBayes, 27
catalog, 5	predict.nb, 15, 21, 22, 27, 48
confint_robust, 5	predict.regress, 20, 23, 28, 33, 43, 49
confusion, 6	print.ann.predict, 29
crs, 7, 16, 17, 44, 45	print.logistic.predict, 30
(13, 7, 10, 17, 77, 73	print.model.predict, 30
direct_marketing, 7	print.nb.predict, 31
dtree, 8, 9, 17, 36, 45	<pre>print.regress.predict, 31</pre>
dtree_parser, 8	
dvd, 9	radiant.model, 32
4.4, >	radiant.model-deprecated, 32
evalbin, 5, 9, 18, 32, 46	radiant.model-deprecated-package
evalreg, 10, 16, 19, 46	<pre>(radiant.model-deprecated), 32</pre>
2.22. 26, 23, 23, 23	<pre>radiant.model-package(radiant.model),</pre>
find_max, 11	32
find_min, 12	regress, 22, 23, 26, 29, 32, 32, 43, 49
	<pre>regression(radiant.model-deprecated),</pre>
<pre>glm_reg(radiant.model-deprecated), 32</pre>	32
	render.DiagrammeR, 33
houseprices, 12	repeater, 23, 34, 49
ideal, 13	
ideal, 13	scaledf, 35
logistic, 13, 19, 20, 25, 26, 32, 43, 47	sdw, 35
10810010, 10, 12, 20, 20, 20, 10, 17	sensitivity, 36
nb, 14, 21, 28, 48	sensitivity.dtree, <i>8</i> , <i>17</i> , 36, <i>45</i>
	sim_cleaner, 38
<pre>performance (radiant.model-deprecated),</pre>	sim_splitter,39
32	sim_summary, 39
plot.ann, 4, 15, 44	simulater, 24, 37, 45, 50
plot.confusion, 16	store.model, 40, 42, 43
plot.crs, 16, 45	store.model.predict, 40, 42, 43
plot.dtree, 8, 9, 17, 36, 45	store.nb.predict,41
plot.evalbin, 5, 6, 10, 18, 46	store_ann, 42
plot.evalreg, <i>11</i> , 18, <i>46</i>	store_crs, 42
plot.logistic, 14, 19, 20, 26, 47	store_glm, 43
plot.model.predict, 14, 20, 20, 26, 47	store_reg, 43

INDEX 53

```
summary.ann, 4, 15, 25, 44
summary.crs, 17, 44
summary.dtree, 8, 9, 17, 36, 45
summary.evalbin, 5, 6, 10, 18, 45
summary.evalreg, 11, 16, 19, 46
summary.logistic, 14, 26, 47
summary.nb, 15, 21, 28, 48
summary.regress, 23, 29, 33, 48
summary.repeater, 49
summary.simulater, 24, 38, 50
test_specs, 50
var_check, 51
```