

Package ‘predictoR’

June 29, 2023

Title Predictive Data Analysis System

Version 3.0.3

Description Perform a supervised data analysis on a database through a 'shiny' graphical interface. It includes methods such as K-Nearest Neighbors, Decision Trees, ADA Boosting, Extreme Gradient Boosting, Random Forest, Neural Networks, Deep Learning, Support Vector Machines and Bayesian Methods.

License GPL (>= 2)

Imports DT (>= 0.27), dplyr (>= 1.1.0), shiny (>= 1.7.4), golem (>= 0.3.5), rlang (>= 1.0.6), loadeR (>= 1.0.1), config (>= 0.3.1), xtable (>= 1.8-4), glmnet (>= 4.1-6), traineR (>= 2.0.4), shinyjs (>= 2.1.0), xgboost (>= 1.7.3.1), shinyAce (>= 0.4.2), echarts4r (>= 0.4.4), htmltools (>= 0.5.4), rpart.plot (>= 3.1.1), colourpicker (>= 1.1.1), shinydashboard (>= 0.7.2), shinycustomloader (>= 0.9.0), shinydashboardPlus (>= 2.0.3)

Depends R (>= 4.1)

Encoding UTF-8

URL <https://promidat.website/>,<https://github.com/PROMiDAT/predictoR>

BugReports <https://github.com/PROMiDAT/predictoR/issues>

RoxygenNote 7.1.2

NeedsCompilation no

Author Oldemar Rodriguez [aut, cre],
Diego Jiménez [ctb, prg]

Maintainer Oldemar Rodriguez <oldemar.rodriguez@ucr.ac.cr>

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e_coeff_landa	<i>Coefficients and lambda</i>
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Description

Plot the coefficients and selected lambda of a glmnet model.

Usage

```
e_coeff_landa(model, category, sel.lambda = NULL, label = "Log Lambda")
```

Arguments

model	a glmnet model.
category	a category of the variable to be predicted.
sel.lambda	the selected lambda.
label	a character specifying the title to use on selected lambda tooltip.

Value

echarts4r plot

Author(s)

Joseline Quiros <joseline.quiros@promidat.com>

Examples

```
modelo <- trainer::train.glmnet(Species~., iris)
e_coeff_landa(modelo, 'setosa', log(modelo$lambda[1]))
```

`e_global_gauge`*Gauge Plot*

Description

Gauge Plot

Usage

```
e_global_gauge(  
  value = 100,  
  label = "Label",  
  color1 = "#B5E391",  
  color2 = "#90C468"  
)
```

Arguments

value	a number specifying the value of the graph.
label	a character specifying the title to use on legend.
color1	a color for the gauge.
color2	a shadowColor for the gauge.

Value

echarts4r plot

Author(s)

Joseline Quiros <joseline.quiros@promidat.com>

Examples

```
e_global_gauge(87, "Global Precision")
```

e_JS	<i>Eval character vectors to JS code</i>
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Description

Eval character vectors to JS code

Usage

```
e_JS(...)
```

Arguments

... character vectors to evaluate

Author(s)

Joseline Quiros <joseline.quiros@promidat.com>

Examples

```
e_JS('5 * 3')
```

e_posib_lambda	<i>Possible lambda</i>
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Description

Possible lambda

Usage

```
e_posib_lambda(  
  cv.glm,  
  labels = c("Valor Superior", "Valor Inferior", "lambda")  
)
```

Arguments

cv.glm a cv.glmnet model.
labels a character vector of length 3 specifying the titles to use on legend.

Value

echarts4r plot

Author(s)

Joseline Quiros <joseline.quiros@promidat.com>

Examples

```
x      <- model.matrix(Species~., iris)[, -1]
y      <- iris[, 'Species']
cv.glm <- glmnet::cv.glmnet(x, y, standardize = TRUE, alpha = 1, family = 'multinomial')
e_posib_lambda(cv.glm)
```

e_rf_error

Error Evolution

Description

Error Evolution

Usage

```
e_rf_error(model, label = "Trees")
```

Arguments

model a random forest model.
label a label plot.

Value

echarts4r plot

Author(s)

Joseline Quiros <joseline.quiros@promidat.com>

Examples

```
model <- trainR::train.randomForest(Species~., iris, mtry = 2, ntree = 20)
label <- "Trees"
e_rf_error(model, label)
```

predictoR

Predictive Data Analysis System

Description

Perform a supervised data analysis on a database through a 'shiny' graphical interface. It includes methods such as K-Nearest Neighbors, Decision Trees, ADA Boosting, Extreme Gradient Boosting, Random Forest, Neural Networks, Deep Learning, Support Vector Machines and Bayesian Methods.

Details

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Author(s)

Oldemar Rodriguez Rojas
Maintainer: Oldemar Rodriguez Rojas <oldemar.rodriguez@ucr.ac.cr>

run_app

Run the Shiny Application

Description

Run the Shiny Application

Usage

```
run_app(...)
```

Arguments

... A series of options to be used inside the app.

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