

# Package ‘predictoR’

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**Title** Predictive Data Analysis System

**Version** 3.0.10

**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/>

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

**RoxygenNote** 7.3.1

**Language** en-US

**NeedsCompilation** no

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**Repository** CRAN

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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]))
```

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`e_global_gauge`*Gauge Plot*

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**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 &lt;joseline.quiros@promidat.com&gt;

**Examples**

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

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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')
```

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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)
```

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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)
```

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predictoR

*Predictive Data Analysis System*

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### 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

Package: predictoR  
Type: Package  
Version: 3.0.9  
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License: GPL (>=2)

### Author(s)

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### See Also

Useful links:

- <https://promidat.website/>
- Report bugs at <https://github.com/PROMiDAT/predictoR/issues>

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prob.values

*Create Cut-Off Probability values.*

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### Description

Create Cut-Off Probability values.

### Usage

```
prob.values(Score, Class, levels, category, step = -0.05)
```

**Arguments**

Score	a data.frame object.
Class	the column name to apply disjunctive code.
levels	the column name to apply disjunctive code.
category	a character value specifying the name of the category to apply the Cut-Off Probability.
step	the step for the Cut-Off Probability.

**Author(s)**

Joseline Quirós <joseline.quirós@promidat.com>

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*run\_app*                      *Run the Shiny Application*

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**Description**

Run the Shiny Application

**Usage**

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

**Arguments**

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

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