

# Package ‘regressoR’

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**Title** Regression Data Analysis System

**Type** Package

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**Depends** R (>= 4.1)

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**Description** Perform a supervised data analysis on a database through a 'shiny' graphical interface. It includes methods such as linear regression, penalized regression, k-nearest neighbors, decision trees, ada boosting, extreme gradient boosting, random forest, neural networks, deep learning and support vector machines.

**License** GPL (>= 2)

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**Author** Oldemar Rodriguez R. [aut, cre],  
Andres Navarro D. [ctb, prg],  
Diego Jimenez A. [ctb, prg],  
Ariel Arroyo S. [ctb, prg]

**Maintainer** Oldemar Rodriguez R. <[oldemar.rodriguez@ucr.ac.cr](mailto:oldemar.rodriguez@ucr.ac.cr)>

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---

app_server	<i>The application server-side</i>
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---

## Description

The application server-side

## Usage

```
app_server(input, output, session)
```

## Arguments

input, output, session	Internal parameters for shiny. DO NOT REMOVE.
------------------------	---

---

as_string_c	<i>as_string_c</i>
-------------	--------------------

---

## Description

creates a string representative of a vector

## Usage

```
as_string_c(vect, quote = TRUE)
```

## Arguments

vect	a vector with values
quote	a logical value. If TRUE, the values on the vector will be surrounded by quotes.

## Examples

```
as_string_c(c("A", "B", "C"))
as_string_c(c(5, 6, 7))
as_string_c(c(5, 6, 7), quote = FALSE)
as_string_c(iris$Species)
```

`boosting_importance_plot`  
*boosting\_importance\_plot*

### Description

generates the graph of variable importance.

### Usage

```
boosting_importance_plot(  
  model,  
  titles = c("Importancia de Variables segun Influencia Relativa",  
           "Influencia Relativa", "Variable")  
)
```

### Arguments

<code>model</code>	boosting model(gbm).
<code>titles</code>	Labels on the chart

`boosting_model`      *boosting\_model*

### Description

generates a boosting model.

### Usage

```
boosting_model(  
  data,  
  variable.pred,  
  n.trees = 50,  
  distribution = "gaussian",  
  shrinkage = 0.1  
)
```

### Arguments

<code>data</code>	dataframe
<code>variable.pred</code>	the name of the variable to be predicted.
<code>n.trees</code>	integer specifying the total number of trees to fit.
<code>distribution</code>	either a character string specifying the name of the distribution to use or a list with a component name specifying the distribution and any additional parameters needed.
<code>shrinkage</code>	the shrinkage parameter of the model. The learning rate or step-size reduction

**See Also**[gbm](#)

---

`boosting_prediction`    *boosting\_prediction*

---

**Description**

generates the prediction of a boosting model.

**Usage**

```
boosting_prediction(model, test.data, n.trees = 50)
```

**Arguments**

<code>model</code>	boosting model(gbm).
<code>test.data</code>	dataframe.
<code>n.trees</code>	number of trees used in the prediction.

**See Also**[gbm](#)

---

`calibrate_boosting`    *calibrate\_boosting*

---

**Description**

helps to get the maximum of n.minobsinnode and bag.fraction values with which no error is generated in the model.

**Usage**

```
calibrate_boosting(data)
```

**Arguments**

<code>data</code>	the name of the learning data.
-------------------	--------------------------------

**See Also**[gbm](#)**Examples**

```
calibrate_boosting(iris)
```

coef_lambda	<i>coef_lambda</i>
-------------	--------------------

### Description

get penalized regression coefficients.

### Usage

```
coef_lambda(data, variable.pred, model, log.lambda = NULL)
```

### Arguments

<code>data</code>	dataframe
<code>variable.pred</code>	the name of the variable to be predicted.
<code>model</code>	a penalized regression model( <code>cv.glmnet</code> ).
<code>log.lambda</code>	numerical. Logarithm of lambda in case you don't want to use the optimal lambda.

datos.disyuntivos	<i>Create disjunctive columns to a data.frame.</i>
-------------------	--

### Description

Create disjunctive columns to a data.frame.

### Usage

```
datos.disyuntivos(data, var)
```

### Arguments

<code>data</code>	a data.frame object.
<code>var</code>	the column name to apply disjunctive code.

### Value

`data.frame`

### Author(s)

Diego Jimenez <[diego.jimenez@promidat.com](mailto:diego.jimenez@promidat.com)>

### Examples

```
datos.disyuntivos(iris, "Species")
```

---

dfnormal	<i>Data.frame with normal test</i>
----------	------------------------------------

---

**Description**

Data.frame with normal test

**Usage**

```
dfnormal(data)
```

**Arguments**

data            a data.frame object only with the numeric columns.

**Value**

data.frame

**Author(s)**

Diego Jimenez <diego.jimenez@promidat.com>

**Examples**

```
dfnormal(iris[, -5])
```

---

disp_models	<i>disp_models</i>
-------------	--------------------

---

**Description**

this function generates the call code of the scatter function.

**Usage**

```
disp_models(prediction, model_name, var_pred)
```

**Arguments**

prediction      the name of the prediction object.  
model\_name      the name of the model.  
var\_pred        the name of the variable to be predicted.

## Examples

```
disp_models("prediction.knn", "KNN", "Species")
```

`dt_model`

*dt\_model*

## Description

generates a decision trees model.

## Usage

```
dt_model(data, variable.pred, minsplit = 20, maxdepth = 15)
```

## Arguments

<code>data</code>	dataframe
<code>variable.pred</code>	the name of the variable to be predicted.
<code>minsplit</code>	the minsplit parameter of the model.
<code>maxdepth</code>	the maxdepth parameter of the model.

## See Also

[rpart](#)

`dt_plot`

*dt\_plot*

## Description

makes the graph of the tree.

## Usage

```
dt_plot(model)
```

## Arguments

<code>model</code>	a decision trees model(rpart).
--------------------	--------------------------------

---

dt_prediction	<i>dt_prediction</i>
---------------	----------------------

---

**Description**

generates the prediction of the decision trees model.

**Usage**

```
dt_prediction(model, test.data)
```

**Arguments**

model	a decision trees model(rpart).
test.data	dataframe.

---

---

exe	<i>exe</i>
-----	------------

---

**Description**

concat and execute a text in R.

**Usage**

```
exe(..., envir = parent.frame())
```

**Arguments**

...	one or more texts to be concatenated and executed.
envir	the environment in which expr is to be evaluated.

**Value**

the result of the execute.

**Examples**

```
exe("5+5")
exe("5","+", "5")
exe("plot(iris$Species)")
```

`extract_code`*extract\_code***Description**

gets the code of a function in text form.

**Usage**

```
extract_code(funcion, envir = parent.frame())
```

**Arguments**

<code>funcion</code>	the name of the function to be extracted.
<code>envir</code>	the environment in which expr is to be evaluated.

**Examples**

```
extract_code("cat")
extract_code("plot")

parse(text = extract_code("plot"))
```

`e_coeff_landa`*e\_coeff\_landa***Description**

Graph the coefficients and lambdas of a cv.glmnet model

**Usage**

```
e_coeff_landa(
  cv.glm,
  log.lambda = NULL,
  titles = c("Coeficientes", "Seleccionado", "Automatico")
)
```

**Arguments**

<code>cv.glm</code>	a cv.glmnet model.
<code>log.lambda</code>	number that specifies the logarithm of the selected lambda
<code>titles</code>	labels on the chart

**Value**

echarts4r plot

**Author(s)**

Ariel Arroyo <luis.ariel.arroyo@promidat.com>

**See Also**

[cv.glmnet](#)

---

e\_cor

*Correlation plot*

---

**Description**

Correlation plot

**Usage**

```
e_cor(x, colors = c("#FF5733", "#F8F5F5", "#2E86C1"))
```

**Arguments**

- |        |   |
|--------|---|
| x      | a data.frame with correlation values.   |
| colors | a vector of lenght 3 with color values. |

**Value**

echarts4r plot

**Author(s)**

Diego Jimenez <diego.jimenez@promidat.com>

**Examples**

```
p <- round(cor(iris[, -5]), 3)
e_cor(p)
```

---

**e\_histboxplot**      *Histogram + boxplot*

---

## Description

Histogram + boxplot

## Usage

```
e_histboxplot(  
  data,  
  var.name,  
  colorBar = "steelblue",  
  colorPoint = "red",  
  titulos = c("Minimo", "Primer Cuartil", "Mediana", "Tercer Cuartil", "Maximo")  
)
```

## Arguments

<code>data</code>	a numeric column of a data.frame.
<code>var.name</code>	a character value specifying the name of the variable.
<code>colorBar</code>	a color for the bars.
<code>colorPoint</code>	a color for the points.
<code>titulos</code>	a character vector of length 5 specifying the titles to use on legend.

## Value

echarts4r plot

## Author(s)

Diego Jimenez <diego.jimenez@promidat.com>

## Examples

```
e_histboxplot(iris$Sepal.Width, "Sepal.Width")
```

---

e_histnormal	<i>Normal plot</i>
--------------	--------------------

---

## Description

Normal plot

## Usage

```
e_histnormal(  
  data,  
  colorbar = "steelblue",  
  colorline = "gray",  
  nombres = c("Histograma", "Curva Normal")  
)
```

## Arguments

data	a numeric column of a data.frame.
colorbar	a color for the bars.
colorline	a color for the line.
nombres	a character vector of length 2 specifying the titles to use on legend.

## Value

echarts4r plot

## Author(s)

Diego Jimenez <diego.jimenez@promidat.com>

## Examples

```
e_histnormal(iris$Sepal.Length)
```

**e\_JS***Eval character vectors to JS code***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***e\_posib\_lambda***Description**

Graph a cv.glmnet model

**Usage**

```
e_posib_lambda(
  cv.glm,
  log.lambda = NULL,
  titles = c("Error Cuadratico Medio", "Curva Inferior", "Curva Superior",
            "Seleccionado", "Automatico", "Coeficientes Distintos de Cero")
)
```

**Arguments**

<code>cv.glm</code>	a <code>cv.glmnet</code> model.
<code>log.lambda</code>	number that specifies the logarithm of the selected lambda
<code>titles</code>	labels on the chart

**Value**

echarts4r plot

**Author(s)**

Ariel Arroyo <luis.ariel.arroyo@promidat.com>

**See Also**

[cv.glmnet](#)

---

e\_qq

*Qplot + Qline*

---

**Description**

Qplot + Qline

**Usage**

```
e_qq(data, colorpoint = "steelblue", colorline = "gray")
```

**Arguments**

- |            |                                   |
|------------|-----------------------------------|
| data       | a numeric column of a data.frame. |
| colorpoint | a color for the points.           |
| colorline  | a color for the line.             |

**Value**

echarts4r plot

**Author(s)**

Diego Jimenez <diego.jimenez@promidat.com>

**Examples**

```
e_qq(iris$Sepal.Length)
```

general_indices	<i>general_indices</i>
-----------------	------------------------

### Description

calculates indices to measure accuracy of a model.

### Usage

```
general_indices(real, predicción)
```

### Arguments

real	the real values in training-testing.
predicción	the prediction values in training-testing.

### Value

a list with the Correlation, Relative Error, Mean Absolute Error and Root Mean Square Error.

### Examples

```
real <- rnorm(45)
prediction <- rnorm(45)
model <- "KNN"
general_indices(real, prediction)
```

importance_plot_rf	<i>importance_plot_rf</i>
--------------------	---------------------------

### Description

graphs the importance of variables for the random forest model according to the percentage increase in mean square error.

### Usage

```
importance_plot_rf(
  model.rf,
  titles = c("Importancia de Variables Segun el Porcentaje de Incremento del MSE",
            "Aumento porcentual del error cuadratico medio", "Variable")
)
```

**Arguments**

model.rf	a random forest model.
titles	labels on the chart

**Value**

echarts4r plot

**Author(s)**

Ariel Arroyo <luis.ariel.arroyo@promidat.com>

**See Also**

[randomForest](#)

---

kkn\_model

*kkn\_model*

---

**Description**

generates a k nearest neighbors model.

**Usage**

```
kkn_model(  
  data,  
  variable.pred,  
  scale = TRUE,  
  k = 7,  
  kernel = "optimal",  
  distance = 2  
)
```

**Arguments**

data	dataframe
variable.pred	the name of the variable to be predicted.
scale	the scale parameter of the model.
k	the k value of the model.
kernel	string. The kernel parameter of the model.
distance	the distance parameter of the model.

**See Also**

[train.kknn](#)

<code>kkn_prediction</code>	<i>kkn_prediction</i>
-----------------------------	-----------------------

### Description

generates the prediction of the k nearest neighbors model.

### Usage

```
kkn_prediction(model, test.data)
```

### Arguments

<code>model</code>	k nearest neighbors model( <code>train.kknn</code> ).
<code>test.data</code>	dataframe.

<code>nn_model</code>	<i>nn_model</i>
-----------------------	-----------------

### Description

generates the code to create the neural network model.

### Usage

```
nn_model(data, variable.pred, hidden = c(1), threshold = 0.1, stepmax = 2000)
```

### Arguments

<code>data</code>	dataframe
<code>variable.pred</code>	the name of the variable to be predicted.
<code>hidden</code>	a vector of integers specifying the number of hidden neurons (vertices) in each layer.
<code>threshold</code>	a numeric value specifying the threshold for the partial derivatives of the error function as stopping criteria.
<code>stepmax</code>	the maximum steps for the training of the neural network. Reaching this maximum leads to a stop of the neural network's training process.

### See Also

[neuralnet](#)

---

*nn\_plot**nn\_plot*

---

**Description**

graph of the neural network.

**Usage**

```
nn_plot(model)
```

**Arguments**

**model**            a neural network model(neuralnet)

---

---

*nn\_prediction**nn\_prediction*

---

**Description**

generates the prediction of a neural network model.

**Usage**

```
nn_prediction(model, test.data)
```

**Arguments**

**model**            neural network model(neuralnet).  
**test.data**        dataframe.

**See Also**

[compute](#)

`pairs_power`*pairs\_power***Description**

Generate a pair chart

**Usage**

```
pairs_power(data, decimals = 2)
```

**Arguments**

- |                       |  |
|-----------------------|--|
| <code>data</code>     | A DataFrame                                |
| <code>decimals</code> | Number of numbers after the decimal point. |

**See Also**

[pairs.panels](#)

`plot_pred_rd`*plot\_pred\_rd***Description**

graph of variance explained in the predictors according to components used.

**Usage**

```
plot_pred_rd(
  model,
  n.comp,
  titles = c("Varianza Explicada en Predictores", "Número de Componentes",
            "Porcentaje de Varianza Explicada")
)
```

**Arguments**

- |                     |                                   |
|---------------------|-----------------------------------|
| <code>model</code>  | a dimension reduction model.      |
| <code>n.comp</code> | the optimum number of components. |
| <code>titles</code> | labels on the chart               |

**Value**

echarts4r plot

**Author(s)**

Ariel Arroyo <luis.ariel.arroyo@promidat.com>

---

```
plot_real_prediction  plot_real_prediction
```

---

**Description**

scatter plot between the actual value of the variable to be predicted and the prediction of the model.

**Usage**

```
plot_real_prediction(  
  real,  
  prediction,  
  model = "",  
  titles = c("Predicciones vs Valores Reales", "Valor Real", "Prediccion")  
)
```

**Arguments**

real	the real values in traning-testing.
prediction	the prediction values in traning-testing.
model	the name of the model of the scatter plot.
titles	Labels on the chart

**Value**

echarts4r plot

**Author(s)**

Ariel Arroyo <luis.ariel.arroyo@promidat.com>

`plot_RMSE`*plot\_RMSE***Description**

graph the root mean square error of cross validation according to components used.

**Usage**

```
plot_RMSE(
  model,
  n.comp,
  titles = c("RMSE Segun Numero de Componentes", "Numero de Componente", "RMSE")
)
```

**Arguments**

<code>model</code>	a dimension reduction model.
<code>n.comp</code>	the optimum number of components.
<code>titles</code>	labels on the chart

**Value**

echarts4r plot

**Author(s)**

Ariel Arroyo <luis.ariel.arroyo@promidat.com>

`plot_var_pred_rd`*plot\_var\_pred\_rd***Description**

graph of the variance explained in the variable to predict according to the components used.

**Usage**

```
plot_var_pred_rd(
  model,
  n.comp,
  titles = c("Varianza Explicada en Variable a Predecir", "Numero de Componente",
            "Porcentaje de Varianza Explicada")
)
```

**Arguments**

model	a dimension reduction model.
n.comp	the optimum number of components.
titles	labels on the chart

**Value**

echarts4r plot

**Author(s)**

Ariel Arroyo <luis.ariel.arroyo@promidat.com>

---

rd\_model

*rd\_model*

---

**Description**

generates a dimension reduction model.

**Usage**

```
rd_model(data, variable.pred, mode = 0, scale = TRUE)
```

**Arguments**

data	dataframe
variable.pred	the name of the variable to be predicted.
mode	the method of dimension reduction is defined as mode=1 is the MCP, and mode=0 the ACP.
scale	the scale parameter of the model.

**See Also**

[pcr](#), [plsR](#)

rd_prediction	<i>rd_prediction</i>
---------------	----------------------

### Description

generates the prediction of a dimension reduction model.

### Usage

```
rd_prediction(model, test.data, ncomp = NULL)
```

### Arguments

model	dimension reduction model(pcr/plsr).
test.data	dataframe.
ncomp	a numerical value in case you don't want to use the optimum number of components.

rd_type	<i>rd_type</i>
---------	----------------

### Description

returns the name of the method of dimension reduction.

### Usage

```
rd_type(mode.rd = 0)
```

### Arguments

mode.rd	the method of dimension reduction is defined as mode=1 is the MCP, and mode=0 the ACP.
---------	--

### See Also

[pcr](#), [plsr](#)

### Examples

```
rd_type(1)
rd_type(0)
```

---

`rf_model`*rf\_model*

---

## Description

generates a random forest model.

## Usage

```
rf_model(data, variable.pred, ntree = 500, mtry = 1)
```

## Arguments

data	dataframe
variable.pred	the name of the variable to be predicted.
ntree	the ntree parameter of the model.
mtry	the mtry parameter of the model.

## See Also

[randomForest](#)

---

---

`rf_prediction`*rf\_prediction*

---

## Description

generates the prediction of the random forest model.

## Usage

```
rf_prediction(model, test.data)
```

## Arguments

model	Random Forest model(randomForest).
test.data	dataframe.

---

`rlr_model`*rlr\_model*

---

**Description**

generates a penalized regression model.

**Usage**

```
rlr_model(data, variable.pred, alpha = 0, standardize = TRUE)
```

**Arguments**

- |                            |   |
|----------------------------|---|
| <code>data</code>          | dataframe                                 |
| <code>variable.pred</code> | the name of the variable to be predicted. |
| <code>alpha</code>         | the alpha parameter of the model.         |
| <code>standardize</code>   | the standardize parameter of the model.   |

**See Also**

[glmnet](#), [cv.glmnet](#)

---

`rlr_prediction`*rlr\_prediction*

---

**Description**

generates the prediction of the penalized regression model.

**Usage**

```
rlr_prediction(model, test.data, variable.pred, log.lambda = NULL)
```

**Arguments**

- |                            |  |
|----------------------------|--|
| <code>model</code>         | a penalized regression model( <code>cv.glmnet</code> ).                          |
| <code>test.data</code>     | dataframe.   |
| <code>variable.pred</code> | the name of the variable to be predicted.  |
| <code>log.lambda</code>    | numerical. Logarithm of lambda in case you don't want to use the optimal lambda. |

---

rlr_type	<i>rlr_type</i>
----------	-----------------

---

**Description**

returns the name of the penalty according to the alpha.

**Usage**

```
rlr_type(alpha_rlr = 0)
```

**Arguments**

alpha\_rlr      the penalty is defined as alpha=1 is the lasso penalty, and alpha=0 the ridge penalty.

**See Also**

[glmnet](#)

**Examples**

```
rlr_type(1)  
rlr_type(0)
```

---

---

rl_coeff	<i>rl_coeff</i>
----------	-----------------

---

**Description**

get the information of the coefficients of the linear regression model

**Usage**

```
rl_coeff(modelo)
```

**Arguments**

modelo      linear regression model

---

`rl_model`*rl\_model*

---

**Description**

generates a linear regression model.

**Usage**

```
rl_model(data, variable.pred)
```

**Arguments**

<code>data</code>	dataframe
<code>variable.pred</code>	the name of the variable to be predicted.

**See Also**

[lm](#)

---

`rl_prediction`*rl\_prediction*

---

**Description**

generates the prediction of the linear regression model.

**Usage**

```
rl_prediction(model, test.data)
```

**Arguments**

<code>model</code>	a linear regression model(lm).
<code>test.data</code>	dataframe.

**See Also**

[predict](#)

---

`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.

---

---

`summary_indices`*summary\_indices*

---

**Description**

summarizes a variable by returning the minimum, first quartile, third quartile and maximum value.

**Usage**

```
summary_indices(data)
```

**Arguments**

data                a numeric vector.

**Examples**

```
summary_indices(iris$Sepal.Length)
```

---

`svm_model`*svm\_model*

---

**Description**

generates a support vector machines model.

**Usage**

```
svm_model(data, variable.pred, scale = TRUE, kernel = "linear")
```

**Arguments**

- |                            |  |
|----------------------------|--|
| <code>data</code>          | dataframe                                  |
| <code>variable.pred</code> | the name of the variable to be predicted.  |
| <code>scale</code>         | the scale parameter of the model.          |
| <code>kernel</code>        | string. The kernel parameter of the model. |

**See Also**

[svm](#)

---

`svm_prediction`*svm\_prediction*

---

**Description**

generates the prediction of the support vector machine model.

**Usage**

```
svm_prediction(model, test.data)
```

**Arguments**

- |                        |                                      |
|------------------------|--------------------------------------|
| <code>model</code>     | a support vector machine model(svm). |
| <code>test.data</code> | dataframe.                           |

---

*translate**translate*

---

**Description**

translates text id into current language.

**Usage**

```
translate(text, language = "es")
```

**Arguments**

text	the id for the text.
language	the language to choose. It can be "es" or "en".

**Examples**

```
translate("knn")
translate("knn", "en")
```

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