

Package ‘shinyr’

May 9, 2026

Type Package

Title Data Insights Through Inbuilt R Shiny App

Version 0.4.2

Description

It builds dynamic R shiny based dashboards to analyze any CSV files. It provides simple dashboard design to subset the data, perform exploratory data analysis and preliminary machine learning (supervised and unsupervised). It also provides filters based on columns of interest.

Depends R (>= 3.5.0),

Imports dplyr, shiny, shinydashboard, tm, wordcloud, corplot,
randomForest, RColorBrewer, caret, nnet, plotly

Suggests knitr, rmarkdown, testthat (>= 3.0.0)

VignetteBuilder knitr

Config/testthat/edition 3

License GPL-3

Encoding UTF-8

RoxygenNote 7.3.2

NeedsCompilation no

Author Jayachandra N [aut, cre],
Pushker Ravindra [aut]

Maintainer Jayachandra N <itsjay510@gmail.com>

Repository CRAN

Date/Publication 2025-02-03 19:30:02 UTC

Contents

confmatrix	2
dataPartition	3
detectClass	4
excludeThese	4
getcharacterCols	5

getCoefficients	6
getDataInsight	7
getFeqTable	7
getLibraryReport	8
getMostRepeatedValue	9
getnumericCols	9
getType	10
getTypeOfColumns	11
getWordCloud	11
groupByandSumarize	12
imputeMyData	13
make_var	13
missing_count	14
multinomial	15
plotCor	16
randomForestModel	16
regressionModelMetrics	17
shineMe	18
splitAndGet	19
valid_sets	19

Index	21
--------------	-----------

confmatrix	<i>Conf Matrix</i>
------------	--------------------

Description

Calculates a cross-tabulation of observed and predicted classes with associated statistics.

Usage

```
confmatrix(actuals, preds)
```

Arguments

actuals	a numeric vector
preds	a numeric vector

Details

confmatrix

Value

A table same as caret::ConfusionMatrix

Author(s)

Jayachandra N

Examples

```
confmatrix(c(1,1,1,0), c(1,1,0,0))
```

<code>dataPartition</code>	<i>Data Partition</i>
----------------------------	-----------------------

Description

Partition data for training and test

Usage

```
dataPartition(df, train_data_perc)
```

Arguments

`df` data.frame which need to be devided into train and test subset
`train_data_perc` numeric value between 1 to 100

Details

`dataPartition`

Value

list of length 2 which contains Train data and Test data

Author(s)

Jayachandra N

Examples

```
dataPartition(iris, 80)
```

detectClass

Detect Class

Description

Detects class of given objects

Usage

```
detectClass(x)
```

Arguments

x a vector

Details

detectClass

Value

type of the vector

Author(s)

Jayachandra N

Examples

```
detectClass(c(1,2,3))
detectClass(c("a", "b"))
detectClass(iris$Species)
```

excludeThese*Exclude These*

Description

Exclude an item from a set of items

Usage

```
excludeThese(set, items_to_exclude)
```

Arguments

set vector
items_to_exclude vector to exclude from the whole set

Details

excludeThese

Value

vector

Author(s)

Jayachandra N

Examples

```
excludeThese(1:10, 1)
```

getcharacterCols *Get Character Cols*

Description

Get character columns.

Usage

```
getcharacterCols(dat)
```

Arguments

dat data frame

Details

getcharacterCols

Value

A Character vector of names of numeric columns of a given data frame

Author(s)

Jayachandra N

Examples

```
getcharacterCols(iris)
getcharacterCols(mtcars)
```

`getCoefficients` *Get Coefficients*

Description

Get coefficients from the model summary

Usage

```
getCoefficients(model)
```

Arguments

model lm model

Details

`getCoefficients`

Value

data.frame of coefficients

Author(s)

Jayachandra N

Examples

```
model <- lm(Sepal.Length ~ ., iris) # A linear regression model
getCoefficients(model)
```

`getDataInsight` *get Data Insights*

Description

Get detailed insights about the data like number of rows, columns and some basic statistics such as mean

Usage

```
getDataInsight(temp)
```

Arguments

temp data frame

Details

```
getDataInsight
```

Value

list of details of data

Author(s)

Jayachandra N

Examples

```
getDataInsight(mtcars)  
getDataInsight(iris)
```

`getFeqTable` *Get Feq Table*

Description

Get frequency table for a given text

Usage

```
getFeqTable(text)
```

Arguments

text plain text or a paragraph

Details

`getFeqTable`

Value

data frame of word and it's frequency.

Author(s)

Jayachandra N

Examples

```
getFeqTable("shinyr is Incredible!")
```

`getLibraryReport` *Get Library Report*

Description

Get report on whether the given packages are installed on not

Usage

```
getLibraryReport(packages)
```

Arguments

`packages` Vector of package names

Details

`getLibraryReport`

Value

data.frame, status of required packages and their installation status

Author(s)

Jayachandra N

Examples

```
getLibraryReport(c('dplyr', 'data.table'))
```

`getMostRepeatedValue` *Get Most Repeated Value*

Description

get most repeated value in a given vector.

Usage

```
getMostRepeatedValue(vec)
```

Arguments

vec Vector to calculate most repeated values

Details

`getMostRepeatedValue`

Value

most repeated values in the given set of values

Author(s)

Jayachandra N

Examples

```
getMostRepeatedValue(c(1,2,3,3,3,2))  
getMostRepeatedValue(c("R", "R", "Python", "Python", "R"))
```

`getnumericCols` *Get Numeric Cols*

Description

Get all columns which are numeric.

Usage

```
getnumericCols(dat)
```

Arguments

dat data frame

Details

getnumericCols

Value

Character vector of names of numeric columns of given data frame

Author(s)

Jayachandra N

Examples

```
getnumericCols(iris)
getnumericCols(mtcars)
```

getType

Get Type

Description

getType

Usage

```
getType(vec)
```

Arguments

vec A vector of any choice, to detect between numeric or character

Value

type of the given vector

Author(s)

Jayachandra N

Examples

```
getType(iris$Species)
getType(as.factor(c(1,0,1,1,0,NA,1, NULL)))
getType(as.factor(c(1, NULL,0,1,1,0,1, 'a')))
getType(c(1,2,3,4, NA))
getType(letters[1:4])
```

`getTypeOfColumns` *getTypeOfColumns*

Description

`getTypeOfColumns`

Usage

`getTypeOfColumns(df)`

Arguments

`df` data frame

Value

Data frame of column name and it's type

Author(s)

Jayachandra N

Examples

```
getTypeOfColumns(mtcars)
getTypeOfColumns(iris)
```

`getWordCloud` *Get Word Cloud*

Description

Get word cloud for given table of words' frequencies

Usage

`getWordCloud(d)`

Arguments

`d` table of word's frequency

Details

`getWordCloud`

Value

Word cloud plot

Examples

```
x <- getFeqTable("Hello! R is Great")
getWordCloud(x)
```

groupByandSumarize *Group By And Summarize*

Description

Group by columns and summarize given data.

Usage

```
groupByandSumarize(df, grp_col, summarise_col, FUN = mean)
```

Arguments

df	data frame
grp_col	column name to group
summarise_col	column name to summarize
FUN	function to summarize

Details

groupByandSumarize

Value

summarized table

Author(s)

Jayachandra N

Examples

```
groupByandSumarize(mtcars, grp_col = c("am"), summarise_col = "hp",
FUN = "mean")
```

imputeMyData	<i>Impute My Data</i>
--------------	-----------------------

Description

Impute for missing values in given column in a given data by given method.

Usage

```
imputeMyData(df, col, FUN)
```

Arguments

df	data frame to impute
col	a column name of data frame to impute
FUN	a function to be used for imputing values one of(mean, median, sum, min, max)

Details

imputeMyData

Value

data frame after imputing the values

Author(s)

Jayachandra N

Examples

```
x <- head(iris)
x$Sepal.Length[1] <- NA
imputeMyData(x, "Sepal.Length", "mean")
```

make_var	<i>Make Var</i>
----------	-----------------

Description

Make a variable from a given character vector.

Usage

```
make_var(prefix, var, suffix)
```

Arguments

prefix	prefix character
var	character to convert
suffix	suffix character

Details

make_var

Value

variable

Author(s)

Jayachandra N

Examples

```
make_var("", "Jay", "")
make_var("", "Incredible_India", "")
```

missing_count

Missing Count

Description

Count the number of missing values in a vector.

Usage

```
missing_count(x)
```

Arguments

x	vector
---	--------

Details

missing_count

Value

Number of missing values in the given set of values

Author(s)

Jayachandra N

Examples

```
missing_count(c(1,2,3))  
missing_count(c(NA, 1, NA, "NULL", ""))
```

multinomial

Multinomial

Description

Fit Multinomial Log-linear Models.

Usage

```
multinomial(eqn, df)
```

Arguments

eqn	formula to build model
df	data frame

Details

multinomial

Value

model

Author(s)

Jayachandra N

Examples

```
multinomial( Species ~ ., iris)
```

plotCor *Plot Cor*

Description

Plot correlation plot

Usage

```
plotCor(cor_dat, my_method)
```

Arguments

cor_dat	Corelation matrix
my_method	method to plot, for example: circle

Details

plotCor

Value

Corelation plot

Author(s)

Jayachandra N

Examples

```
cor_dat <- cor(mtcars)
plotCor(cor_dat, "circle")
```

randomForestModel *Random Forest Model*

Description

Build Random Forest Model.

Usage

```
randomForestModel(eqn, df)
```

Arguments

eqn	formula
df	data.frame

Details

randoMForestModel

Value

rf model

Author(s)

Jayachandra N

Examples

```
randomForestModel( Species ~ ., iris)
```

regressionModelMetrics

Regression Model Metrics

Description

Generate regression model metrics such as R-squared and MAPE.

Usage

```
regressionModelMetrics(actuals, predictions, model)
```

Arguments

actuals	numeric vector of actual values
predictions	numeric vector of predictions
model	lm model object

Details

regressionModelMetrics

Value

list

Author(s)

Jayachandra N

Examples

```
mod <- lm(formula = wt ~ ., data = mtcars)
predictions <- predict(mod, mtcars[,-6])
actuals <- mtcars[,6]
regressionModelMetrics(actuals = actuals,
  predictions = predictions, model = mod)
```

shineMe

shineMe

Description

An R shiny app for shinyr UI.

Usage

```
shineMe()
```

Details

shineMe

Value

shiny UI page

Author(s)

Jayachandra N

Examples

```
shineMe()
```

splitAndGet	<i>Split And Get</i>
-------------	----------------------

Description

Split a string by space and get

Usage

```
splitAndGet(x)
```

Arguments

x string to split into words

Details

splitAndGet

Value

List of worrds

Author(s)

Jayachandra N

Examples

```
splitAndGet("R programming is awesome!")
```

valid_sets	<i>Valid Sets</i>
------------	-------------------

Description

Get a list of all datasets available as data.frame in R

Usage

```
valid_sets(package = NULL, cols = NULL)
```

Arguments

package package name to fetch inbuilt data sets example: "datasets"
cols numeric to specify condition on how many columns should data frame have

Details

`valid_sets`

Value

data frame all available datasets of class data frame

Author(s)

Pushker Ravindra

Jayachandra N

Examples

```
valid_sets()
```

Index

`confmatrix`, 2

`dataPartition`, 3

`detectClass`, 4

`excludeThese`, 4

`getcharacterCols`, 5

`getCoefficients`, 6

`getDataInsight`, 7

`getFeqTable`, 7

`getLibraryReport`, 8

`getMostRepeatedValue`, 9

`getnumericCols`, 9

`getType`, 10

`getTypeOfColumns`, 11

`getWordCloud`, 11

`groupByandSumarize`, 12

`imputeMyData`, 13

`make_var`, 13

`missing_count`, 14

`multinomial`, 15

`plotCor`, 16

`randomForestModel`, 16

`regressionModelMetrics`, 17

`shineMe`, 18

`splitAndGet`, 19

`valid_sets`, 19