Package ‘shinyr’

November 6, 2019

Type Package

Title Easy insights through your data

Version 0.2

Description
'shinyr' is developed to build dynamic shiny based dashboards to analyze the data of your choice. It provides simple yet genius dashboard design to subset the data, perform exploratory analysis and predictive analysis by means of interactive filter mechanism.

Depends R (>= 3.1.0),

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

Maintainer The package maintainer <itsjay510@gmail.com>

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Encoding UTF-8

LazyData true

RoxygenNote 6.1.1

Suggests testthat

URL https://github.com/rpushker/shinyr

NeedsCompilation no

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

R topics documented:

`confmatrix` *confmatrix*

Description

confmatrix

Usage

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

Arguments

`actuals`	factor
`preds`	factor

Value

table

Author(s)

Jayachandra N

Examples

```
## Not run:
confmatrix(c(1,1,1,0), c(1,1,0,0))

## End(Not run)
```

dataPartition *dataPartition*

Description

dataPartition

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

Value

list of length 2 which contains Train data and Test data

Author(s)

Jayachandra N

Examples

```
## Not run:
dataPartition(iris, 80)

## End(Not run)
```

detectClass *detectClass*

Description

detectClass

Usage

```
detectClass(x)
```

Arguments

`x`	a vector

Value

type of the vector

Author(s)

Jayachandra N

Examples

```
## Not run:
detectClass(c(1,2,3))
detectClass(c("a","b"))
detectClass(iris$Species)

## End(Not run)
```

---

excludeThese *excludeThese*

Description

excludeThese

Usage

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

Arguments

`set`	vector
`items_to_exclude`	vector to exclude from the whole set

Value

vector

Author(s)

Jayachandra N

Examples

```
## Not run:
excludeThese(1:10, 1)

## End(Not run)
```

`getcharacterCols` *getcharacterCols*

Description

getcharacterCols

Usage

```
getcharacterCols(dat)
```

Arguments

`dat`	data frame

Value

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

Author(s)

Jayachandra N

`getCoefficients` *getCoefficients*

Description

getCoefficients

Usage

```
getCoefficients(model)
```

Arguments

`model`	lm model

Value

data.frame of coeffcients

Author(s)

Jayachandra N

Examples

```
## Not run:
 x <- lm(Sepal.Length ~ ., iris)
 getCoefficients(x)

## End(Not run)
```

`getDataInsight` *getDataInsight*

Description

getDataInsight

Usage

```
getDataInsight(temp)
```

Arguments

`temp`	data frame

Value

list of details of data

Author(s)

Jayachandra N

Examples

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

`getFeqTable` *getFeqTable*

Description

getFeqTable

Usage

```
getFeqTable(text)
```

Arguments

`text`	plain text or a paragraph

Value

data frame of word and it's frequency.

Author(s)

Jayachandra N

Examples

```
## Not run:
getFeqTable("India is Incredible!")

## End(Not run)
```

`getMostRepeatedValue` *getMostRepeatedValue*

Description

getMostRepeatedValue

Usage

```
getMostRepeatedValue(vec)
```

Arguments

`vec`	Vector to calculate most repeated values

Value

most repeated values in the given set of values

Examples

```
## Not run:
getMostRepeatedValue(c(1,2,3,3,3,2))
getMostRepeatedValue(c("R", "R", "Python", "Python", "R"))

## End(Not run)
```

getnumericCols *getnumericCols*

Description

getnumericCols

Usage

```
getnumericCols(dat)
```

Arguments

`dat`	data frame

Value

Character vector of names of numeric columns of given data frame

Author(s)

Jayachandra N

Examples

```
## Not run:
getnumericCols(iris)
getnumericCols(mtcars)

## End(Not run)
```

getWordCloud *getWordCloud*

Description

getWordCloud

Usage

```
getWordCloud(d)
```

Arguments

d	table of word's frequency

Value

Word cloud plot

Examples

```
## Not run:
x <- getFeqTable("Hello! R is Great")
getWordCloud(x)

## End(Not run)
```

groupByandSumarize *groupByandSumarize*

Description

groupByandSumarize

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

Value

summarized table

Examples

```
## Not run:
groupByandSumarize(mtcars, grp_col = c("am"), summarise_col = "hp", FUN = "mean")

## End(Not run)
```

`imputeMyData` *imputeMyData*

Description

imputeMyData

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)

Value

data frame after imputing the values

Examples

```
## Not run:
x <- head(iris)
x$Sepal.Length[1] <- NA
imputeMyData(x, "Sepal.Length", "mean")

## End(Not run)
```

`make_var` *make_var*

Description

make_var

Usage

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

Arguments

`prefix`	prefix character
`var`	character to convert
`suffix`	suffix character

Value

variable

Examples

```
## Not run:
make_var("", "Jay", "")
make_var("", "Incredible_India", "")

## End(Not run)
```

`missing_count` *missing_count*

Description

missing_count

Usage

```
missing_count(x)
```

Arguments

`x`	vector

Value

Number of missing values in the given set of values

Author(s)

Jayachandra N

Examples

```
## Not run:
missing_count(c(1,2,3))
missing_count(c(NA, 1, NA, "NULL", ""))

## End(Not run)
```

`multinomial` *multinomial*

Description

multinomial

Usage

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

Arguments

`eqn`	formula to build model
`df`	data frame

Value

model

Examples

```
## Not run:
multinomial( Species ~ .,  iris)

## End(Not run)
```

`plotCor` *plotCor*

Description

plotCor

Usage

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

Arguments

`cor_dat`	Corelation matrix
`my_method`	method to plot Example: circle

Value

Corelation plot

`randomForestModel` *randoMForestModel*

Description

randoMForestModel

Usage

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

Arguments

`eqn`	formula
`df`	data.frame

Value

rf model

Examples

```
## Not run:
#' mod <- randomForestModel( Species ~ .,  iris)

## End(Not run)
```

`regressionModelMetrics` *regressionModelMetrics*

Description

regressionModelMetrics

Usage

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

Arguments

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

Value

list

Author(s)

Jayachandra N

Examples

```
## Not run:
mod <- lm(formula = wt ~ ., data = mtcars)
predictions <- predict(mod, mtcars[,-6])
actials <- mtcars[,6]
regressionModelMetrics(actuals = actials,
predictions = predictions, model = mod)

## End(Not run)
```

`shineMe` *shineMe*

Description

shineMe

Usage

```
shineMe()
```

Value

shiny ui page

Author(s)

Jayachandra N

Examples

```
## Not run:
shineMe()

## End(Not run)
```

`splitAndGet` *splitAndGet*

Description

splitAndGet

Usage

```
splitAndGet(x)
```

Arguments

`x`	string to split into words

Value

List of worrds

Author(s)

Jayachandra N

Examples

```
## Not run:
splitAndGet("R programming is awesome!")

## End(Not run)
```

---

valid_sets *valid_sets*

Description

valid_sets

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

Value

data frame all available datasets of class data frame

Author(s)

Ravindra Pushker

Jayachandra N

Examples

```
## Not run:
valid_sets()

## End(Not run)
```

Index