Package ‘mdapack’

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Title Medical Data Analysis Pack

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Depends R (>= 2.10)


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VignetteBuilder knitr

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**plotHeatmapGroup**  
*A plotHeatmapGroup function for numeric variables*

**Description**

`plotHeatmapGroup` returns a plot showing the strength of correlation of numeric variables in a data frame. The function receives just one input as data frame.

**Usage**

```r
plotHeatmapGroup(dat, ...)
```

**Arguments**

- `dat`  
  Data in data frame format.
- `...`  
  Optional arguments

**Value**

A heatmap is returned showing correlation of all numeric variables in data frame

**Author(s)**

Henry Nanji, Saisakul Chernbumroong

**Examples**

```r
data(iris)
plotHeatmapGroup(iris[,1:4])
```

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**univariateAnalysis**  
*A univariateAnalysis Function*

**Description**

`univariateAnalysis` produces univariate plots such as histogram, box plot and q-q plot. It also calculates the Shapiro-Wilk statistic for numeric data.

**Usage**

```r
univariateAnalysis(
  dat,
  hist = FALSE,
  boxplot = FALSE,
  qqnorm = FALSE,
  shapiro = FALSE
)
```
**Arguments**

- `dat` Data in data frame format.
- `hist` A plot of histogram
- `boxplot` A box plot showing distribution of the variable
- `qqnorm` A quantile quantile plot
- `shapiro` A Shapiro-Wilk normality test.

**Value**

Returns either a histogram, box-plot, q-q plot or Shapiro-Wilk statistic.

**Author(s)**

Henry Nanji, Saisakul Chernbumroong

**Examples**

```r
data(iris)
univariateAnalysis(iris[, -5], qqnorm = TRUE)
```
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