R topics documented:

cfa ......................................................... 2
corrana .................................................. 3
edapy ..................................................... 3
edar ......................................................... 4
pca ........................................................ 4

Description

A Shiny app for automated Confirmatory Factor Analysis (CFA) based on the R package lavaan. Single-group, first-order CFA for datasets up to 5000 observations, 25 (approximately) continuous variables and 5000 KB. An interpretation in natural language and the R Code to reproduce the results is included in the report. Run the app locally by calling the function or launch it directly in the web from [https://statsomat.shinyapps.io/Confirmatory-Factor-Analysis](https://statsomat.shinyapps.io/Confirmatory-Factor-Analysis). Follow the Instructions described in the GUI to use the app and generate a report. Check also the GitHub repository [https://github.com/Statsomat/CFA](https://github.com/Statsomat/CFA).

Usage

cfa()

Value

Shiny app opens in viewer or browser.

Examples

## Not run:
library(Statsomat)
cfa()

## End(Not run)
**corrana**  

*Correlation Analysis*

**Description**

A Shiny app for automated Correlation Analysis for (approximately) continuous variables. An interpretation in plain English and the R Code to reproduce the results is included in the report. Run the app locally by calling the function or launch it directly in the web from [https://statsomat.shinyapps.io/Correlations](https://statsomat.shinyapps.io/Correlations). Follow the Instructions described in the GUI to use the app and generate a report. Check also the GitHub repository [https://github.com/Statsomat/CORRANA](https://github.com/Statsomat/CORRANA).

**Usage**

corrana()

**Value**

Shiny app opens in viewer or browser.

**Examples**

```r
## Not run:
library(Statsomat)
corrana()
## End(Not run)
```

---

**edapy**  

*Exploratory Data Analysis with Python*

**Description**

A Shiny app for automated Exploratory Data Analysis with Python, based on the R interface to Python reticulate. Run the app locally by calling the function or launch it directly in the web from [https://statsomat.shinyapps.io/edapy](https://statsomat.shinyapps.io/edapy). Follow the Instructions in the GUI of the app to generate a PDF report or Python code to reproduce numerical and graphical results. Check also the GitHub repository of the app for more details [https://github.com/Statsomat/edapy](https://github.com/Statsomat/edapy). System Requirements: Python >=3. Imports numpy, pandas, seaborn, matplotlib, scipy, statsmodels, tabulate, sys, warnings.

**Usage**

edapy()

**Value**

Shiny app opens in viewer or browser.
### edar

**Exploratory Data Analysis with R**

**Description**

A Shiny app for automated Exploratory Data Analysis with R. Run the app locally by calling the function or launch it directly in the web from [https://statsomat.shinyapps.io/Descriptive_statistics/](https://statsomat.shinyapps.io/Descriptive_statistics/). Follow the Instructions described in the GUI to use the app and generate a report. Check also the GitHub repository [https://github.com/Statsomat/edar](https://github.com/Statsomat/edar).

**Usage**

edar()

**Value**

Shiny app opens in viewer or browser.

**Examples**

```r
## Not run:
library(Statsomat)
edar()
## End(Not run)
```

### pca

**Principal Components Analysis**

**Description**

A Shiny app for automated Principal Components Analysis (PCA) based on the R package factorminer. An interpretation in plain English and the R Code to reproduce the results is included in the report. Follow the Instructions on the webpage of the app [https://statsomat.shinyapps.io/Principal-components-analysis/](https://statsomat.shinyapps.io/Principal-components-analysis/) to generate the report. Check also the GitHub repository [https://github.com/Statsomat/PCA](https://github.com/Statsomat/PCA).

**Usage**

pca()
Value

Shiny app opens in viewer or browser.

Examples

```r
## Not run:
library(Statsomat)
pca()

## End(Not run)
```
Index

cfa, 2
corrana, 3

edapy, 3
edar, 4
 pca, 4