Package 'dfmirroR'

January 26, 2024

Title Simulate a Data Frame Mirroring an Input and Produce Shareable
Simulation Code

Version 2.1.0

Maintainer Jacob Patterson-Stein <jacobpstein@gmail.com>

Description The 'dfmirroR' package allows users to input a data frame, simulate some number of ob-
servations based on specified columns of that data frame, and then outputs a string that con-
tains the code to re-create the simulation. The goal is to both provide work-
able test data sets and provide users with the information they need to set up reproducible exam-
ples with team members. This package was created out of a need to share exam-
ples in cases where data are private and where a full data frame is not needed for testing or coor-
dinating.

License MIT + file LICENSE

Encoding UTF-8

Depends R (>= 2.10)

RoxygenNote 7.2.3

Suggests testthat (>= 3.0.0)

Config/testthat/edition 3

Imports fitdistrplus, stats, MASS, e1071

URL https://github.com/jacobpstein/dfmirroR

BugReports https://github.com/jacobpstein/dfmirroR/issues

NeedsCompilation no

Author Jacob Patterson-Stein [aut, cre]

Repository CRAN

Date/Publication 2024-01-26 20:50:02 UTC

R topics documented:

1

---

simulate_dataframe	*Simulate data that mirrors a data frame and output code to re-create the simulation*

Description

Simulate data that mirrors a data frame and output code to re-create the simulation

Usage

```
simulate_dataframe(
  input_df,
  num_obs = 1,
  columns_to_simulate = colnames(input_df)
)
```

Arguments

input_df   A data frame.

num_obs   A numeric value specifying how many observations (i.e., rows) to simulate.

columns_to_simulate

One or more columns from the input_df to simulate. The default is all columns.

Value

A list with

- simulated_df a data frame object containing a simulated mirror of the input df where each specified column has the same mean and standard deviation as the input df

- code a string vector that can be run in conjunction with cat() to output easily shareable code to recreate simulated_df

Examples

```
# # Run the function and create an object called `mirrored_df`
mirrored_df <- simulate_dataframe(mtcars, num_obs = 10, columns_to_simulate = c("mpg", "wt"))

# Print the mirrored data frame
print(mirrored_df$simulated_df)

# Output code to create the mirrored data frame for asking
# questions or supporting other reproducible tasks
cat(mirrored_df$code)
```

Index