Package 'dfmirroR'

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

Version 2.2.0

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

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Encoding UTF-8

Depends R (>= 2.10)

RoxygenNote 7.3.2

Suggests testthat (>= 3.0.0)

Config/testthat/edition 3

Imports fitdistrplus, stats, MASS, e1071

URL

BugReports

NeedsCompilation no

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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),
  hide_cols = FALSE,
  seed = NULL
)
```

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.
hide_cols	Select TRUE to replace column names with anonymized names that take the form of "v1," "v2," and so on for each column.
seed	Optional random seed for reproducibility

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)
```

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