Package 'mlrpro'

October 13, 2022

Type Package

Title Stepwise Regression with Assumptions Checking

Version 0.1.2	
Description The stepwise regression with assumptions checking and the possible Box-Cox transformation.	
License GPL-3	
Encoding UTF-8	
Imports car, dplyr, MASS	
RoxygenNote 7.2.0	
Suggests knitr, rmarkdown, testthat (>= 3.0.0)	
VignetteBuilder knitr	
Config/testthat/edition 3	
NeedsCompilation no	
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Repository CRAN	
Date/Publication 2022-08-10 16:10:09 UTC	
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mlrpro-package	Perform stepwise regression with verifying assumptions and identifying possible Box-Cox transformation
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Description

A tool for multiple regression, select independent variables, check multiple linear regression assumptions and identify possible.

Usage

```
mlrpro(Data,Y,Column_Y,Alpha)
```

Arguments

Data a data frame containing the variables in the model.

Y the response variable.

Column_Y the column response variable.

Alpha significance level.

Value

An object of class mlrpro is a list containing at least the following components:

coefficients a named vector of coefficients.

residuals the residuals, that is response minus fitted values.

fitted.values the fitted mean values.

rank the numeric rank of the fitted linear model.

df.residual the residual degrees of freedom.

call the matched call. terms the terms object used.

model if requested (the default), the model frame used.
lambda value utilized in the data conversion.

Examples

```
data(trees)
Model1 <- mlrpro(Data = trees,Y = trees$Volume, Column_Y = 3, Alpha = 0.05)
## or ##
data(mtcars)
Model2 <- mlrpro(Data = mtcars,Y = mtcars$mpg, Column_Y = 1 , Alpha = 0.01)</pre>
```

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