Package ‘mlrpro’

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Type Package
Title Stepwise Regression with Assumptions Checking
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Description The stepwise regression with assumptions checking and the possible Box-Cox transformation.
License GPL-3
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R topics documented:

mlrpro-package .......................................................... 2

Index 3
mlrpro-package

Perform stepwise regression with verifying assumptions and identifying possible Box-Cox transformation

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.
ranks 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 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)
Index

mlrpro (mlrpro-package), 2
mlrpro-package, 2