Package ‘mldrpro’

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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
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**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.
- **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**
  - lambda value utilized in the data conversion.

**Examples**

```r
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)
```
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