

Package ‘ShapleyValue’

May 7, 2026

Type Package

Title Shapley Value Regression for Relative Importance of Attributes

Version 0.2.0

Author Jingyi Liang

Maintainer Jingyi Liang <jingyiliang19@163.com>

Description Shapley Value Regression for calculating the relative importance of independent variables in linear regression with avoiding the collinearity.

License MIT + file LICENSE

Encoding UTF-8

RoxygenNote 7.1.1

Suggests knitr, rmarkdown

Imports tidyverse,kableExtra,MASS,utils

VignetteBuilder knitr

NeedsCompilation no

Repository CRAN

Date/Publication 2021-07-27 04:50:01 UTC

Contents

shapleyvalue 1

Index 3

shapleyvalue *ShapleyValueRegression – to calculate the relative importance of attributes in linear regression*

Description

Shapley Value Regression for calculating the relative importance of independent variables in linear regression with avoiding the collinearity.

Arguments

y A column or data set of the dependent variable
x A matrix or data set of the independent variables

Value

The structure of the output is a datatable, with two rows: the unstandardized and standardized relative importance of each attributes using shapley value regression method.

Examples

```
library(MASS)
library(tidyverse)
data <- Boston
y <- data$medv
x <- as.data.frame(data[,5:8])
shapleyvalue(y,x)
```

Index

shapleyvalue, 1