

# Package ‘ShapleyValue’

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**Type** Package

**Title** Shapley Value Regression for Relative Importance of Attributes

**Version** 0.2.0

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**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

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|--------------|---------------------------------------------------------------------------------------------------------|
| shapleyvalue | <i>ShapleyValueRegression – to calculate the relative importance of attributes in linear regression</i> |
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## 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)
```

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