

Package ‘plotor’

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Type Package

Title Produces an Odds Ratio Plot from a Logistic Regression Model

Version 0.5.2

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Description Produces an Odds Ratio (OR) Plot to visualise the result of a logistic regression analysis. Provide it with a binomial regression model produced by 'glm()' and it will convert the estimates to odds ratios with a 95% confidence interval and plot the results using 'ggplot2'.

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Encoding UTF-8

Imports broom, cli, dplyr, forcats, ggplot2, glue, purrr, rlang, scales, stats, stringr, tidyselect

RoxygenNote 7.3.2

Suggests datasets, knitr, labelled, rmarkdown, testthat (>= 3.0.0), tidy

VignetteBuilder knitr

URL <https://github.com/craig-parylo/plotor>,
<https://craig-parylo.github.io/plotor/>

BugReports <https://github.com/craig-parylo/plotor/issues>

Config/testthat/edition 3

Depends R (>= 4.1.0)

NeedsCompilation no

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Repository CRAN

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plot_or	<i>Plot OR</i>
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Description

Produces an Odds Ratio plot to visualise the results of a logistic regression analysis.

Usage

```
plot_or(glm_model_results, conf_level = 0.95)
```

Arguments

glm_model_results	Results from a binomial Generalised Linear Model (GLM), as produced by <code>stats::glm()</code> .
conf_level	Numeric between 0.001 and 0.999 (default = 0.95). The confidence level to use when setting the confidence interval, most commonly will be 0.95 or 0.99 but can be set otherwise.

Value

plotor returns an object of class gg and ggplot

See Also

See vignette('using_plotor', package = 'plotor') for more details on use.

More details and examples are found on the website: <https://craig-parylo.github.io/plotor/index.html>

Examples

```
# libraries
library(plotor)
library(datasets)
library(dplyr)
library(ggplot2)
library(stats)
library(forcats)
library(tidyr)

# get some data
```

```
df <- datasets::Titanic |>
  as_tibble() |>
  # convert aggregated counts to individual observations
  filter(n > 0) |>
  uncount(weights = n) |>
  # convert character variables to factors
  mutate(across(where(is.character), as.factor))

# perform logistic regression using `glm`
lr <- glm(
  data = df,
  family = 'binomial',
  formula = Survived ~ Class + Sex + Age
)

# produce the Odds Ratio plot
plot_or(lr)
```

validate_glm_model *Validate the {glm} model*

Description

Check whether the glm model object is the product of logistic regression.

Usage

```
validate_glm_model(glm_model)
```

Arguments

glm_model Results from a binomial Generalised Linear Model (GLM), as produced by [stats::glm\(\)](#)

Value

boolean (TRUE = logistic regression, FALSE = other model)

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