Package: plotor (via r-universe)

October 27, 2024

Type Package

Title Produces an Odds Ratio Plot from a Logistic Regression Model

Version 0.5.0

Maintainer Craig Parylo <craig.parylo2@nhs.net>

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'.

License MIT + file LICENSE

Encoding UTF-8

LazyData true

Imports broom, dplyr, ggplot2, glue, purrr, scales, stats, tidyselect

Roxygen list(markdown = TRUE)

RoxygenNote 7.3.2

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

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

Repository https://craig-parylo.r-universe.dev

RemoteUrl https://github.com/craig-parylo/plotor

RemoteRef HEAD

RemoteSha 3ddc2ce4e6a7c86f3c946555dd98b7abe962095b

Contents

---

plot_or *Plot OR*

Description

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

Usage

```
plot_or(glm_model_results)
```

Arguments

glm_model_results	Results from a binomial Generalised Linear Model (GLM), as produced by stats::glm().

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)
```

Index