## Package 'odds.n.ends’

October 14, 2022
Title Odds Ratios, Contingency Table, and Model Significance from a Generalized Linear Model Object

Version 0.1.4
Imports MASS
Description Computes odds ratios and $95 \%$ confidence intervals from a generalized linear model object. It also computes model significance with the chi-squared statistic and p-value and it computes model fit using a contingency table to determine the percent of observa-
tions for which the model correctly predicts the value of the outcome. Calculates model sensitivity and specificity.

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Encoding UTF-8
RoxygenNote 7.1.1
Suggests knitr, rmarkdown
VignetteBuilder knitr
NeedsCompilation no
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Repository CRAN
Date/Publication 2021-09-17 20:20:02 UTC

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A binary logistic regression function

## Description

This function allows you to compute model significance (model chi-squared), model fit (percent correctly predicted, sensitivity, specificity), ROC plot, predicted probability plot, and odds ratios with 95 percent confidence intervals for a glm object from a binary logistic regression analysis.

## Usage

odds.n.ends( mod, thresh $=0.5$, rocPlot $=$ FALSE , predProbPlot $=$ FALSE, color1 = "\#7463AC", color2 = "deeppink"
)

## Arguments

| mod | is a glm object |
| :--- | :--- |
| thresh | is the threshold between 0-1 for predicted prob to be considered a case |
| rocPlot | is TRUE or FALSE to display an ROC plot |
| predProbPlot | is TRUE or FALSE to display predicted prob histogram by outcome value |
| color1 | choose color for plot <br> color2 |

## Examples

```
sick <- c(0, 0, 0, 0, 1, 1, 1, 1, 1, 0, 0, 0, 0, 1, 1, 1, 1, 1, 1, 1)
age <- c(23, 25, 26, 34, 54, 46, 48, 95, 81, 42, 62, 25, 31, 49, 57, 52, 54, 63, 61, 50)
logisticModel <- glm(sick ~ age, na.action = na.exclude, family = binomial(logit))
odds.n.ends(mod = logisticModel)
```


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