Package 'fitODBODRshiny'

May 8, 2026

Title 'Shiny' Application for R Package 'fitODBOD'

Version 1.0.2

Description For binomial outcome data Alternate Binomial Distributions and Binomial Mixture Distributions are fitted when overdispersion is available.

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URL https://github.com/Amalan-ConStat/fitODBODRshiny,https://amalan-con-stat.shinyapps.io/fitODBODRshiny/

BugReports https://github.com/Amalan-ConStat/fitODBODRshiny/issues

Depends R (>= 2.10)

Imports bslib, config (>= 0.3.2), flextable, ggplot2, golem (>= 0.4.1), shiny (>= 1.8.0), shinydashboard, shinyscreenshot

Suggests gridlayout

Additional_repositories https://amalan-constat.github.io/drat/

Encoding UTF-8

LazyData true

LazyDataCompression xz

RoxygenNote 7.3.1

NeedsCompilation no

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Repository CRAN

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Contents

`All_Plots` *All Plots data*

Description

Data for the Rshiny application are stored here. The data consists a list of plots for Alternate Binomial and Binomial Mixture distributions modelled on the datasets from the R package "fitODBOD". Each element here consists seven elements representing the seven datasets.

Usage

```
All_Plots
```

Format

A list with

`All_Data` All Datasets with binomial random variables and their frequencies

`ABD_Table` Table results from the Alternate Binomial distribution

`BMD_Table` Table results from the Binomial Mixture distributions

`Bin_Plot` Plot for the fitted Binomial distribution

`Add_Bin_Plot` Frequency plot for the fitted Additive Binomial distribution

`Beta_Corr_Bin_Freq_Plot` Frequency plot for the fitted Beta Correlated Binomial distribution

`Beta_Corr_Bin_Par_Plot` Parameter plot for the fitted Beta Correlated Binomial distribution

`COMP_Bin_Freq_Plot` Frequency plot for the fitted Composite Binomial distribution

`COMP_Bin_Par_Plot` Parameter plot for the fitted Composite Binomial distribution

`Corr_Bin_Freq_Plot` Frequency plot for the fitted Correlated Binomial distribution

`Corr_Bin_Par_Plot` Parameter plot for the fitted Correlated Binomial distribution

`Multi_Bin_Freq_Plot` Frequency plot for the fitted Multiplicative Binomial distribution

`Multi_Bin_Par_Plot` Parameter plot for the fitted Multiplicative Binomial distribution

`LMulti_Bin_Freq_Plot` Frequency plot for the fitted Lovinson Multiplicative Binomial distribution

`LMulti_Bin_Par_Plot` Parameter plot for the fitted Lovinson Multiplicative Binomial distribution

`Tri_Bin_Plot` Frequency plot for the fitted Triangular Binomial distribution

`Beta_Bin_Freq_Plot` Frequency plot for the fitted Beta Binomial distribution

`Beta_Bin_Par_Plot` Parameter plot for the fitted Beta Binomial distribution

`Kum_Bin_Freq_Plot` Frequency plot for the fitted Kumaraswamy Binomial distribution

`Kum_Bin_Par_Plot` Parameter plot for the fitted Kumaraswamy Binomial distribution

`Gam_Bin_Freq_Plot` Frequency plot for the fitted Gamma Binomial distribution

`Gam_Bin_Par_Plot` Parameter plot for the fitted Gamma Binomial distribution

`Grassia_Bin_Freq_Plot` Frequency plot for the fitted Grassia II Binomial distribution

`Grassia_Bin_Par_Plot` Parameter plot for the fitted Grassia II Binomial distribution

`GHGBeta_Bin_Freq_Plot` Frequency plot for the fitted Gaussian Hypergeometric Generalized Beta Binomial distribution

`GHGBeta_Bin_Par_Plot` Parameter plot for the fitted Gaussian Hypergeometric Generalized Beta Binomial distribution

`McGBB_Bin_Freq_Plot` Frequency plot for the fitted McDonald Generalized Beta Binomial distribution

`McGBB_Bin_Par_Plot` Parameter plot for the fitted McDonald Generalized Beta Binomial distribution

Examples

```
length(All_Plots$Bin_Plots) # No of plots in the list for all 7 datasets
length(All_Plots$All_Data) # 7 datasets
```

`run_app` *Run the Shiny Application*

Description

Run the Shiny Application

Usage

```
run_app(...)
```

Arguments

...	list of golem options.

Value

used for side effects

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