Package ‘multilevelmod’

October 13, 2022

Title Model Wrappers for Multi-Level Models

Version 1.0.0

Description Bindings for hierarchical regression models for use with the
‘parsnip’ package. Models include longitudinal generalized linear
models (Liang and Zeger, 1986) <doi:10.1093/biomet/73.1.13>, and
mixed-effect models (Pinheiro and Bates)

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URL https://github.com/tidymodels/multilevelmod,
http://multilevelmod.tidymodels.org/

Depends parsnip (>= 1.0.0), R (>= 2.10)
Imports dplyr, lme4, purrr, rlang, tibble, withr
Suggests covr, gee, ggplot2, knitr, nlme, rmarkdown, spelling,
testthat, tidymodels

VignetteBuilder knitr

Config/Needs/website tidymodels/tidymodels, tidyverse/tidytemplate

Encoding UTF-8

Language en-US

LazyData true

RoxygenNote 7.2.0

NeedsCompilation no

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longitudinal_counts  Simulated longitudinal Poisson counts

Description

Simulated longitudinal Poisson counts

Details

These are simulated data of 100 subjects each with 10 time points and an additional numeric covariate. The linear predictor has a random standard normal intercept per subject, a time coefficient of 1.50, and a covariate coefficient of 0.25.

Value

longitudinal_counts
    a tibble

Examples

data(longitudinal_counts)
str(longitudinal_counts)

msa_data  Measurement systems analysis data

Description

Measurement systems analysis data

Details

A biological assay (i.e. a lab test) was run on 56 separate samples twice. The goal is to measure what percentage of the total variation in the results is related to the measurement system and how much is attributable to the true systematic difference (sample-to-sample).

Value

msa_data  a tibble
Description

Imipramine longitudinal data

Details

These data are from a longitudinal clinical trial for depression. The outcome is the change in depression scores week-to-week. The endogenous column is an indicator for whether the subject fit the WHO Depression Scale classification of endogenous. The imipramine and desipramine columns are measurements of plasma levels for both substances.

Value

riesby a tibble

Source


Examples

data(riesby)
str(riesby)
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