

Package ‘BrazilCrime’

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Title Accesses Brazilian Public Security Data from SINESP Since 2015

Version 0.3.0

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Description Allows access to data from the Brazilian Public Security Information System (SINESP) by state and municipality. It should be emphasized that the package only extracts the data and facilitates its manipulation in R. Therefore, its sole purpose is to support empirical research. All data credits belong to SINESP, an integrated information platform developed and maintained by the National Secretariat of Public Security (SENASP) of the Ministry of Justice and Public Security. <<https://www.gov.br/mj/pt-br/assuntos/sua-seguranca/seguranca-publica/sinesp-1>>.

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Encoding UTF-8

RoxygenNote 7.3.2

VignetteBuilder knitr

Imports dplyr, forecast, ggplot2

Depends R (>= 4.1.0)

Suggests knitr, rmarkdown, bookdown, kableExtra, tidyr, stringr, ggcorrplot, formatR, lubridate, testthat (>= 3.0.0)

Config/testthat/edition 3

NeedsCompilation no

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br_crime_predict	<i>br_crime_predict Function</i>
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Description

Performs automatic ARIMA modeling and forecasting on crime time series data.

Usage

```
br_crime_predict(  
  dados,  
  ts_col,  
  freq = "monthly",  
  h = 12,  
  log = FALSE,  
  level = 95  
)
```

Arguments

dados	Data.frame contendo as colunas da serie: evento, uf, municipio, data, e uma coluna com os valores numericos.
ts_col	Nome da coluna (string) com os dados da serie temporal (ex: "total_vitima").
freq	Frequencia temporal: "monthly" ou "yearly". Padrao e "monthly".
h	Horizonte da previsao. Padrao: 12.
log	Logico. Se TRUE, aplica transformacao logaritmica. Padrao: FALSE.
level	Nivel de confianca do intervalo de previsao. Padrão: 95.

Value

Lista com modelo ajustado, previsao e grafico ggplot2.

get_sinesp_vde_data	<i>get_sinesp_vde_data Function</i>
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Description

This function collects criminal data from the SINESP VDE database (2015–2024). It supports filtering by state, city, year, crime category and typology.

Usage

```
get_sinesp_vde_data(  
  state = "all",  
  city = "all",  
  year = "all",  
  category = "all",  
  typology = "all",  
  granularity = "month"  
)
```

Arguments

<code>state</code>	State to be filtered. Character or vector. Default is "all".
<code>city</code>	City to be filtered. Character or vector. Default is "all".
<code>year</code>	Year(s) of the crime. Integer or vector. Default is "all".
<code>category</code>	Crime category. Character or vector. Default is "all".
<code>typology</code>	Crime typology (e.g., "Furto de veículo"). Character or vector. Default is "all".
<code>granularity</code>	Level of temporal granularity: "year" or "month". Default is "month".

Value

A data frame with the filtered or summarized data.

Examples

```
dados <- get_sinesp_vde_data(state = "SP", year = 2020:2022)
```

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