Package 'vegetablesSriLanka'

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Type Package

Title Daily Vegetable Prices of Sri Lanka

Version 1.1.0

Description Provides retail and wholesale vegetable price data from two major market hubs in Sri Lanka, Dambulla and Pettah. Includes tools for analyzing, visualizing, and comparing vegetable prices across markets.

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License GPL-3

Encoding UTF-8

LazyData true

Depends R (>= 4.1.0)

Imports tsibble, dplyr, naniar, visdat, ggplot2

RoxygenNote 7.3.3

Suggests knitr, rmarkdown

NeedsCompilation no

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Repository CRAN

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Contents

fillgaps_vegetable_prices *Fill gaps in vegetable price time series*

Description

Fill missing gaps with NA. The function filters the dataset based on the selected item, market, and type, converts the data into a tsibble, and generates a regular time series filling the gaps with NA.

Usage

```
fillgaps_vegetable_prices(data, item, market, type)
```

Arguments

`data`	A data frame containing vegetable price data. The dataset must contain the columns `Date`, `Item`, `Type`, `Market`, and `Price`.
`item`	Character string specifying the vegetable item.
`market`	Character string specifying the market.
`type`	Character string specifying the price type (e.g., `"Retail"` or `"Wholesale"`).

Value

A ggplot object showing the time series of vegetable prices.

Examples

```
fillgaps_vegetable_prices(
  data = vegetables.srilanka,
  item = "Carrot",
  market = "Dambulla",
  type = "Retail"
)
```

plot_vegetable_prices *Plot vegetable price time series*

Description

Visualize retail or wholesale vegetable prices over time for selected items and markets in Sri Lanka. The function filters the dataset based on the selected item, market, and type, converts the data into a tsibble, and generates a time series plot.

Usage

```
plot_vegetable_prices(data, item, market, type)
```

Arguments

`data`	A data frame containing vegetable price data. The dataset must contain the columns `Date`, `Item`, `Type`, `Market`, and `Price`.
`item`	Character string specifying the vegetable item.
`market`	Character string specifying the market.
`type`	Character string specifying the price type (e.g., `"Retail"` or `"Wholesale"`).

Value

A ggplot object showing the time series of vegetable prices.

Examples

```
plot_vegetable_prices(
  data = vegetables.srilanka,
  item = "Carrot",
  market = "Dambulla",
  type = "Retail"
)
```

`vegetables.srilanka` *Daily wholesale and retail vegetable prices in Sri Lanka*

Description

Daily wholesale and retail vegetable prices at Dambulla and Petta markets in Sri Lanka

Usage

```
vegetables.srilanka
```

Format

A tibble with 62908 rows and 5 variables:

Date Date

Item Vegetable name

Type Wholesale or Retail price

Market Pettah or Dambulla market

Price Price in LKR per kg

Source

Accessed from Daily Reports - Central Bank of Sri Lanka

Examples

```
head(vegetables.srilanka)
```

`visualize_missingness` *Visualize missingness in vegetable price data*

Description

Generates a set of visual summaries to inspect data structure and missing values in the dataset. The function returns: (1) data type visualization, (2) missingness map, and (3) missing percentage by grouping variable.

Usage

```
visualize_missingness(data, group_var = "Item", target_var = "Price")
```

Arguments

`data`	A data frame.
`group_var`	Character string specifying the grouping variable for missing percentage visualization (e.g., "Item").
`target_var`	Character string specifying the variable to assess missingness (e.g., "Price").

Value

A named list containing:

- `data_structure`: Data type visualization.
- `missing_map`: Missingness heatmap.
- `missing_by_group`: Bar plot of missing percentages.

Examples

```
visualize_missingness(
  data = vegetables.srilanka,
  group_var = "Item",
  target_var = "Price"
)
```

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