Package ‘nse2r’

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Type Package
Title Fetch Data from 'National Stock Exchange (India)'
Version 0.1.5
Description Fetch data related to stocks, index, futures & options from the 'NSE (National Stock Exchange, India)'. This package is community maintained and is not officially supported by 'NSE'. The accuracy of data is only as correct as provided on <https://www.nseindia.com>.
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## nse_advances_declines

NSE indices advances & declines.

### Usage

```r
nse_advances_declines(clean_names = TRUE)
```

### Arguments

- `clean_names` Logical; if `TRUE`, makes the column names descriptive and uses snake_case.

### Value

A tibble with the following columns:

- `index_name`: Name of the index.
- `advances`: Number of stocks increased (in green).
- `declines`: Number of stocks decreased (in red).
- `unchanged`: Number of stocks unchanged.
nse_app

Examples

nse_advances_declines()

# retain original column names as returned by NSE
nse_advances_declines(clean_names = FALSE)

nse_app  Launch shiny app

Description

Launches shiny app for fetching data from NSE.

Usage

nse_app()

Examples

## Not run:
nse_app()
## End(Not run)

nse_fo  Top F&O gainers and losers

Description

Top futures and options gainers and losers for the last trading session.

Usage

nse_fo_top_gainers(clean_names = TRUE)

nse_fo_top_losers(clean_names = TRUE)

Arguments

clean_names Logical; if TRUE, makes the column names descriptive and uses snake_case.
Value

A tibble with the following columns:

- **symbol**: NSE ticker.
- **series**: Equity (EQ).
- **last_corp_announcement_date**: Last corporate announcement date.
- **last_corp_announcement**: Last corporate announcement.
- **open_price**: Open price.
- **high_price**: High price.
- **low_price**: Low price.
- **last_traded_price**: Last traded price.
- **prev_close_price**: Previous close price.
- **percent_change**: Percentage change in price.
- **traded_quantity**: Total traded quantity.
- **turnover**: Turnover in lakhs.

Examples

```r
# top gainers
nse_fo_top_gainers()

# retain original column names as returned by NSE
nse_fo_top_gainers(clean_names = FALSE)

# top losers
nse_fo_top_losers()

# retain original column names as returned by NSE
nse_fo_top_losers(clean_names = FALSE)
```

Description

List NSE indices.
nse_index_quote

Usage
nse_index_list(clean_names = TRUE)

Arguments

clean_names Logical; if TRUE, makes the column names descriptive and uses snake_case.

Value

A tibble with the following column:

index_name Name of the index.

Examples

nse_index_list()

# retain original column names as returned by NSE
nse_index_list(clean_names = FALSE)

nse_index_quote

Index quote

Description

Fetch the quote for a given index.

Usage

nse_index_quote(clean_names = TRUE)

Arguments

clean_names Logical; if TRUE, makes the column names descriptive and uses snake_case.

Value

A tibble with the following columns:

index_name Name of the NSE indices.
last_traded_price Last traded price.
change Change in price.
percent_change Percentage change in price.
Examples

```r
nse_index_quote()

# retain original column names as returned by NSE
nse_index_quote(clean_names = FALSE)
```

```
| nse_index_valid | Validate index symbol. |
```

Description

Check if index symbol is valid.

Usage

```r
nse_index_valid(index_code)
```

Arguments

- `index_code` 
  Symbol of the index.

Examples

```r
nse_index_valid("nifty auto")
nse_index_valid("nifty cps")
```

```
| nse_stock_code | Stock code |
```

Description

Fetch stock symbol and name from NSE.

Usage

```r
nse_stock_code(clean_names = TRUE)
```

Arguments

- `clean_names` 
  Logical; if TRUE, makes the column names descriptive and uses snake_case.
Value

A tibble with the following columns:

symbol       NSE ticker.
company      Name of the firm.

Examples

nse_stock_code()

# retain original column names as returned by NSE
nse_stock_code(clean_names = FALSE)

Description

Fetch stocks that have touched their 52 week high and low.

Usage

nse_stock_year_high(clean_names = TRUE)
nse_stock_year_low(clean_names = TRUE)

Arguments

clean_names Logical; if TRUE, makes the column names descriptive and uses snake_case.

Value

A tibble with the following column names:

symbol       NSE ticker.
symbol_desc  Name of the firm.
date         Previous high date.
new_high     New 52 week high price.
new_low      New 52 week low price.
year         Year.
last_traded_price Last traded price.
prev_high    Previous high price.
nse_stock_most_traded

| prev_low | Previous low price. |
| prev_close | Previous close price. |
| change | Change in price. |
| percent_change | Percentage change in price. |

Examples

# 52 week high
nse_stock_year_high()

# retain original column names as returned by NSE
nse_stock_year_high(clean_names = FALSE)

# 52 week low
nse_stock_year_low()

# retain original column names as returned by NSE
nse_stock_year_low(clean_names = FALSE)

nse_stock_most_traded  Most actively traded stocks

Description
Fetch most actively traded stocks in a month on NSE.

Usage
nse_stock_most_traded(clean_names = TRUE)

Arguments

| clean_names | Logical; if TRUE, makes the column names descriptive and uses snake_case. |

Value
A tibble with the following columns:

| security | Name of the firm. |
| share_turnover | Share in total turnover (percentage). |
| traded_quantity | Total traded quantity (in lakhs) |
| no_of_trades | Number of trades. |
| avg_daily_turnover | Average daily turnover (in crores). |
| turnover | Turnover (in crores.) |
nse_stock_quote

Examples

nse_stock_most_traded()

# retain original column names as returned by NSE
nse_stock_most_traded(clean_names = FALSE)

nse_stock_quote  Stock quote

Description

Fetch the quote for a given stock code from Yahoo Finance API or Rediff Money.

Usage

nse_stock_quote(stock_code, source = c("yahoo", "rediff"))

Arguments

stock_code  Symbol of the stock.
source  Yahoo Finance API or Rediff Money.

Examples

nse_stock_quote("infy")
nse_stock_quote("infy", source = "rediff")

nse_stock_top_base  NSE top gainers & losers

Description

Fetch top gainers and losers for the last trading session.

Usage

nse_stock_top_gainers(clean_names = TRUE)
nse_stock_top_losers(clean_names = TRUE)
Arguments

  clean_names  Logical; if TRUE, makes the column names descriptive and uses snake_case.

Value

  A tibble with the following columns:

    symbol  NSE ticker.
    series  Equity (EQ).
    last_corp_announcement_date  Last corporate announcement date.
    last_corp_announcement  Last corporate announcement.
    open_price  Open price.
    high_price  High price.
    low_price  Low price.
    last_traded_price  Last traded price.
    prev_close_price  Previous close price.
    percent_change  Percentage change in price.
    traded_quantity  Total traded quantity.
    turnover  Turnover in lakhs.

Examples

  # top gainers
  nse_stock_top_gainers()

  # retain original column names as returned by NSE
  nse_stock_top_gainers(clean_names = FALSE)

  # top losers
  nse_stock_top_losers()

  # retain original column names as returned by NSE
  nse_stock_top_losers(clean_names = FALSE)
**nse_stock_valid**

**Validate stock symbol**

**Description**
Check if stock symbol/ticker is valid.

**Usage**

```r
nse_stock_valid(stock_code)
```

**Arguments**

- `stock_code` Symbol of the stock.

**Examples**

```r
nse_stock_valid("infy")
nse_stock_valid("glo")
```

**preopen_nifty**

**Pre Open market data**

**Description**
Fetch data of pre open session of Nifty & Nifty Bank.

**Usage**

```r
nse_preopen_nifty(clean_names = TRUE)
nse_preopen_nifty_bank(clean_names = TRUE)
```

**Arguments**

- `clean_names` Logical; if TRUE, makes the column names descriptive and uses snake_case.
Value

A tibble with the following columns:

- **symbol**: NSE ticker.
- **series**: Equity (EQ)
- **corp_action_date**: Corporate action date.
- **corp_action**: Corporate Action
- **price**: Price
- **change**: Change in price
- **percent_change**: Percentage change in price.
- **prev_close**: Previous close.
- **quantity**: Quantity
- **value**: Value (in lakhs),
- **mkt_cap**: Free float market capitalization (in crores).
- **year_high**: Normal market 52 week high.
- **year_low**: Normal market 52 week low.

Examples

```r
# nifty
nse_preopen_nifty()

# retain original column names as returned by NSE
nse_preopen_nifty(clean_names = FALSE)

# nifty bank
nse_preopen_nifty_bank()

# retain original column names as returned by NSE
nse_preopen_nifty_bank(clean_names = FALSE)
```
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