Package ‘nse2r’

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Type Package

Title Fetch Data from 'National Stock Exchange (India)'

Version 0.1.1

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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BugReports https://github.com/rsquaredacademy/nse2r/issues

Depends R(>= 3.3)

Imports httr, jsonlite, magrittr, purrr, rvest, shiny, stringr, tibble, utils, xml2

Suggests dplyr, DT, shinyBS, shinycssloaders, shinythemes

Encoding UTF-8

LazyData true

RoxygenNote 6.1.1

NeedsCompilation no

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Description

Tools for Collecting Real Time Data from National Stock Exchange (India)

nse_advances_declines  Advances & Declines

Description

NSE indices advances & declines.

Usage

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.
Examples

nse_advances_declines()

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

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**

```
# 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)
```

---

**Index list**

**Description**

List NSE indices.
Usage

\hspace{1em} nse_index_list(clean_names = TRUE)

Arguments

\hspace{1em} clean_names \hspace{1em} Logical; if TRUE, makes the column names descriptive and uses snake_case.

Value

\hspace{1em} A tibble with the following column:

\hspace{2em} index_name \hspace{1em} Name of the index.

Examples

\hspace{1em} nse_index_list()

\hspace{2em} # retain original column names as returned by NSE
\hspace{2em} nse_index_list(clean_names = FALSE)

\hline
\hline
\textbf{nse_index_quote} & \textit{Index quote} \\
\hline
\hline
Description

\hspace{1em} Fetch the quote for a given index.

Usage

\hspace{1em} nse_index_quote(clean_names = TRUE)

Arguments

\hspace{1em} clean_names \hspace{1em} Logical; if TRUE, makes the column names descriptive and uses snake_case.

Value

\hspace{1em} A tibble with the following columns:

\hspace{2em} index_name \hspace{1em} Name of the NSE indices.
\hspace{2em} last_traded_price \hspace{1em} Last traded price.
\hspace{2em} change \hspace{1em} Change in price.
\hspace{2em} percent_change \hspace{1em} Percentage change in price.
Examples

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
nse_index_valid(index_code)

Arguments
  index_code  Symbol of the index.

Examples

nse_index_valid("nifty auto")
nse_index_valid("nifty cps")

nse_stock_code  Stock code

Description
Fetch stock symbol and name from NSE.

Usage
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

```r
nse_stock_code()

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

---

**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.

Description

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

Usage

```r
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:
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.)
Examples

```r
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.

### Usage

```r
nse_stock_quote(stock_code)
```

### Arguments

- `stock_code`  
  Symbol of the stock.

### Examples

```r
nse_stock_quote("infy")
```

---

**nse_stock_top_base**

* NSE top gainers & losers

### Description

Fetch top gainers and losers for the last trading session.

### Usage

```r
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

```r
# 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.
preopen_nifty

Usage

nse_stock_valid(stock_code)

Arguments

stock_code       Symbol of the stock.

Examples

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

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

# 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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