

Package ‘nse2r’

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Type Package

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

Version 0.1.6

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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URL <https://github.com/rsquaredacademy/nse2r>,
<https://nse2r.rsquaredacademy.com/>

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

Depends R(>= 3.3)

Imports jsonlite, magrittr, utils, yahoofinancer

Suggests covr, DT, httpptest, shiny, shinyBS, shinycssloaders,
shinythemes, testthat (>= 2.1.0)

Encoding UTF-8

RoxygenNote 7.1.1

NeedsCompilation no

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nse2r *nse2r package*

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:

<code>index_name</code>	Name of the index.
<code>advances</code>	Number of stocks increased (in green).
<code>declines</code>	Number of stocks decreased (in red).
<code>unchanged</code>	Number of stocks unchanged.

Examples

```
## Not run:
nse_advances_declines()

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

## End(Not run)
```

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

```
## Not run:  
# 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)  
  
## End(Not run)
```

nse_index_list	<i>Index list</i>
----------------	-------------------

Description

List NSE indices.

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

```
## Not run:  
nse_index_list()  
  
# retain original column names as returned by NSE  
nse_index_list(clean_names = FALSE)  
  
## End(Not run)
```

nse_index_quote	<i>Index quote</i>
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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

```
## Not run:  
nse_index_quote()  
  
# retain original column names as returned by NSE  
nse_index_quote(clean_names = FALSE)  
  
## End(Not run)
```

nse_index_valid	<i>Validate index symbol.</i>
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Description

Check if index symbol is valid.

Usage

```
nse_index_valid(index_code)
```

Arguments

index_code	Symbol of the index.
------------	----------------------

Examples

```
## Not run:  
nse_index_valid("nifty auto")  
nse_index_valid("nifty cps")  
  
## End(Not run)
```

nse_stock_code	<i>Stock code</i>
----------------	-------------------

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

```
## Not run:  
nse_stock_code()  
  
# retain original column names as returned by NSE  
nse_stock_code(clean_names = FALSE)  
  
## End(Not run)
```

nse_stock_high_low	<i>52 week high & low</i>
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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.
prev_low	Previous low price.
prev_close	Previous close price.
change	Change in price.
percent_change	Percentage change in price.

Examples

```
## Not run:  
# 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)  
  
## End(Not run)
```

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:

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

Examples

```
## Not run:  
nse_stock_most_traded()  
  
# retain original column names as returned by NSE  
nse_stock_most_traded(clean_names = FALSE)  
  
## End(Not run)
```

nse_stock_quote	<i>Stock quote</i>
-----------------	--------------------

Description

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

Usage

```
nse_stock_quote(stock_code)
```

Arguments

stock_code	Symbol of the stock.
------------	----------------------

Examples

```
## Not run:  
nse_stock_quote("infy")  
  
## End(Not run)
```

nse_stock_top_base	<i>NSE top gainers & losers</i>
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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

```
## Not run:  
# 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)  
  
## End(Not run)
```

nse_stock_valid	<i>Validate stock symbol</i>
-----------------	------------------------------

Description

Check if stock symbol/ticker is valid.

Usage

```
nse_stock_valid(stock_code)
```

Arguments

stock_code	Symbol of the stock.
------------	----------------------

Examples

```
## Not run:  
nse_stock_valid("infy")  
nse_stock_valid("glo")  
  
## End(Not run)
```

preopen_nifty	<i>Pre Open market data</i>
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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

```
## Not run:  
# 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)  
  
## End(Not run)
```

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