

# Package ‘nse2r’

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**Type** Package

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

**Version** 0.1.4

**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** httr, jsonlite, magrittr, rvest, utils, xml2

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

**Encoding** UTF-8

**LazyData** true

**RoxygenNote** 7.1.1

**NeedsCompilation** no

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**R topics documented:**

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**Description**

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

nse_advances_declines	<i>Advances &amp; Declines</i>
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**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.
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**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)
```

---

nse_app	<i>Launch shiny app</i>
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**Description**

Launches shiny app for fetching data from NSE.

**Usage**

```
nse_app()
```

**Examples**

```
## Not run:
nse_app()

## End(Not run)
```

---

nse_fo	<i>Top F&amp;O gainers and losers</i>
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**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)
```

---

nse\_index\_list

*Index list*


---

**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**

```
nse_index_list()

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

---

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

```
nse_index_quote()

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

---

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

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

---

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

## 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**

```
nse_stock_code()

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

---

nse_stock_high_low	<i>52 week high &amp; 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

```
# 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

```
nse_stock_most_traded()

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

---

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

## 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	<i>NSE top gainers &amp; 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:

<code>symbol</code>	NSE ticker.
<code>series</code>	Equity (EQ).
<code>last_corp_announcement_date</code>	Last corporate announcement date.
<code>last_corp_announcement</code>	Last corporate announcement.
<code>open_price</code>	Open price.
<code>high_price</code>	High price.
<code>low_price</code>	Low price.
<code>last_traded_price</code>	Last traded price.
<code>prev_close_price</code>	Previous close price.
<code>percent_change</code>	Percentage change in price.
<code>traded_quantity</code>	Total traded quantity.
<code>turnover</code>	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	<i>Validate stock symbol</i>
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---

**Description**

Check if stock symbol/ticker is valid.

**Usage**

```
nse_stock_valid(stock_code)
```

**Arguments**

stock\_code      Symbol of the stock.

**Examples**

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

---

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**

```
# 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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