

Package ‘nser’

October 8, 2021

Type Package

Title Bhavcopy and Live Market Data from National Stock Exchange (NSE) India for Equities and Equity Derivatives (F&O)

Version 1.3.3

Date 2021-10-07

Maintainer Nandan Patil <tryanother609@gmail.com>

Description Download Historical Bhavcopy and get Live Market data from NSE India of Equities and Derivatives(F&O) segment. Data source <<https://www.nseindia.com/>>.

URL <https://github.com/nandp1/nser/>

BugReports <https://github.com/nandp1/nser/issues>

Language en-US

License GPL-3

Depends R (>= 3.0)

Encoding UTF-8

LazyData true

Imports stats, utils, readr, magrittr, rvest, tidyverse, stringr, jsonlite, RSelenium, googleVis, dplyr, lubridate, purrr

Suggests rmarkdown, testthat (>= 3.0.0), knitr, reshape2

RoxygenNote 7.1.1

VignetteBuilder knitr

Config/testthat/edition 3

NeedsCompilation no

Author Nandan Patil [cre, aut]

Repository CRAN

Date/Publication 2021-10-08 08:00:08 UTC

R topics documented:

bhav	2
bhavfos	3
bhavpr	4
bhavs	5
bhavtoday	6
dailydata	7
daytoweek	8
fobhav	9
fobhavtoday	10
nseindex	11
nseipo	12
nselive	12
nseopen	14
nsetree	15
Index	16

 bhav

Bhavcopy from NSE

Description

Bhavcopy from NSE

Usage

bhav(x)

Arguments

x numeric date format

Details

Gets Bhavcopy from NSE for the given date.

Value

Bhavcopy for the given date.

Note

The date should be strictly numerical and mentioned in quotation mark. ‘bhav’ can be used to download bhavcopy from 1 Jan 2016 onwards. To download bhavcopy previous to aforementioned date use ‘bhavs’.

Author(s)

Nandan L. Patil <tryanother609@gmail.com>

Source

<https://www1.nseindia.com/products/content/all_daily_reports.htm>

See Also

[bhavprbhavtoday](#)

Examples

```
## Not run:  
report = bhav("01072021") # Download bhavcopy for 01 July 2021  
head(report)  
  
## End(Not run)
```

bhavfos

Futures and Options (F&o) Bhavcopy through RSelenium

Description

Futures and Options (F&o) Bhavcopy through RSelenium

Usage

```
bhavfos(x, n = 0)
```

Arguments

x	numeric date format (ddmmyyyy)
n	time interval to delay in seconds. DEFAULT = 0

Details

Gets zip Bhavcopy from NSE for the given date.

Value

Download F&O Bhavcopy zip file of the given date.

Note

The date should be strictly of numeric and of format 'ddmmyyyy' mentioned in quotation mark. All the Bhavcopy's can be downloaded.

Author(s)

Nandan L. Patil <tryanother609@gmail.com>

Source

<https://www1.nseindia.com/products/content/derivatives/equities/archieve_fo.htm>

See Also

[bhavprbhavtodaybhavfobhavbhavs](#)

Examples

```
## Not run: # Start a selenium server and browser
# For Google Chrome (Update Chrome to latest version)
library(RSelenium)
driver = rsDriver(browser = c("chrome"), port = 3163L, chromever = "91.0.4472.101")
remDr = driver$client

# For Firefox
driver = rsDriver(browser = c("firefox"), port = 3799L)

# Download Equity Bhavcopy zip file
bhavfos("03012000", 3)

# Close the Browser
remDr$close()

## End(Not run)
```

bhavpr

Bhavcopy PR from NSE

Description

Bhavcopy PR from NSE

Usage

```
bhavpr(x)
```

Arguments

x numeric date format

Details

Gets Bhavcopy PR from NSE for the given date.

Value

List of Bhavcopy PR for the given date.

Note

The date should be strictly numerical and mentioned in quotation mark.

Author(s)

Nandan L. Patil <tryanother609@gmail.com>

See Also

[bhavbhavtoday](#)

Examples

```
## Not run:  
# Equity Bhavcopy PR  
library(nser)  
report = bhavpr("01072021")  
  
## End(Not run)
```

bhavs

Equity Bhavcopy through RSelenium

Description

Equity Bhavcopy through RSelenium

Usage

```
bhavs(x, n = 0)
```

Arguments

x	numeric date format (ddmmyyyy)
n	time interval to delay in seconds. DEFAULT = 0

Details

Gets zip Bhavcopy from NSE for the given date.

Value

Download Equity Bhavcopy zip file of the given date.

Note

The date should be strictly numeric and of format 'ddmmyyy' mentioned in quotation mark. All the Bhavcopy's can be downloaded.

Author(s)

Nandan L. Patil <tryanother609@gmail.com>

Source

<https://www1.nseindia.com/products/content/equities/equities/archieve_eq.htm>

See Also

[bhavprbhavtodaybhavfobhavbhavfos](#)

Examples

```
## Not run: # Start a selenium server and browser
library(RSelenium)
# For Google Chrome (Update Chrome to latest version)
driver = rsDriver(browser = c("chrome"), port = 3163L, chromever = "91.0.4472.101")
remDr = driver$client

# For Firefox
driver = rsDriver(browser = c("firefox"), port = 3799L)

# Download Equity Bhavcopy zip file
bhavs("03012000", 3)

# Close the Browser
remDr$close()

## End(Not run)
```

bhavtoday

Get Bhavcopy for the present day

Description

Get Bhavcopy for the present day

Usage

```
bhavtoday()
```

Details

Gets today's bhavcopy from NSE.

Value

Todays's Bhavcopy.

Note

The date should be strictly numerical and mentioned in quotation mark. The present days Bhavcopy would usually available in the evening

Author(s)

Nandan L. Patil <tryanother609@gmail.com>

See Also

[bhavprbhav](#)

Examples

```
## Not run:  
#Todays Equity Bhavcopy  
library(nser)  
report = bhavtoday()  
  
## End(Not run)
```

dailydata

Daily data of a stock

Description

Daily data of a stock with six columns.

Usage

```
data(dailydata)
```

Format

Daily data of a stock with six column

SYMBOL SYMBOL of the stock

OPEN Opening price for the day

HIGH High price for the day

LOW Low price for the day

CLOSE Closing price for the day

DATE Date for the given day

Source

<https://www.nseindia.com/>

See Also

[bhav](#) ,[bhavtoday](#) ,[nsetree](#)

Examples

```
## Not run:  
data(dailydata)  
daytweek(dailydata)  
  
## End(Not run)
```

daytweek

Convert Daily data of a stock to Weekly data

Description

Convert Daily data of a stock to Weekly data

Usage

```
daytweek(x)
```

Arguments

x dataframe containing stock data with columns SYMBOL, OPEN, HIGH, LOW, CLOSE & DATE.

Details

Converts the Daily data of a stock to Weekly data.

Value

Dataframe with Weekly data.

Note

The dataframe should contain six columns named SYMBOL, OPEN, HIGH, LOW, CLOSE & DATE.

Author(s)

Nandan L. Patil <tryanother609@gmail.com>

See Also[bhavprbhavtodaybhav](#)**Examples**

```
## Not run:  
data(dailydata)  
daytoweek(dailydata)  
  
## End(Not run)
```

fobhav

Futures and Options Bhavcopy from NSE

Description

Futures and Options Bhavcopy from NSE

Usage

```
fobhav(x)
```

Arguments

x numeric date format

Details

Gets Futures and Options Bhavcopy from NSE for the given date.

Value

F&O Bhavcopy for the given date.

Note

The date should be strictly numerical and mentioned in quotation mark. 'fobhav' can be used to download bhavcopy from 1 Jan 2016 onwards. To download bhavcopy previous to aforementioned date use 'bhavfos'.

Author(s)

Nandan L. Patil <tryanother609@gmail.com>

Source

<https://www1.nseindia.com/products/content/all_daily_reports.htm>

See Also

[bhavprbhavtoday](#)

Examples

```
report = fobhav("01072021") # Download F&O bhavcopy for 01 July 2021
report
```

fobhavtoday

Get F&O Bhavcopy for the present day

Description

Get F&O Bhavcopy for the present day

Usage

```
fobhavtoday()
```

Details

Gets todays Futures and Options bhavcopy from NSE.

Value

Todays's F&O Bhavcopy.

Note

The date should be strictly numerical and mentioned in quotation mark. The present days Bhavcopy would usually be available in the evening.

Author(s)

Nandan L. Patil <tryanother609@gmail.com>

See Also

[bhavprbhav](#)

Examples

```
## Not run:
#Todays F&O Bhavcopy
library(nser)
report = fobhavtoday()

## End(Not run)
```

nseindex	<i>NSE Nifty Indices</i>
----------	--------------------------

Description

NSE Nifty Indices

Usage

```
nseindex()
```

Details

Live report of Nifty Indices

Value

A dataframe containing last price and

Author(s)

Nandan L. Patil <tryanother609@gmail.com>

Source

<https://www1.nseindia.com/live_market/dynaContent/live_watch/live_index_watch.htm>

See Also

[bhavprbhavfobhavtodaynseopenselive](#)

Examples

```
## Not run:  
#Live status of Nifty Indices  
library(nser)  
nseindex()  
  
## End(Not run)
```

nseipo

Current and Upcoming IPO's on NSE.

Description

Current and Upcoming IPO's on NSE.

Usage

```
nseipo()
```

Details

List of upcoming and current IPO's on NSE gathered form moneycontrol.

Value

A dataframe of IPO's on NSE.

Author(s)

Nandan L. Patil <tryanother609@gmail.com>

See Also

[bhavprbhavfobhavtodaynseopen](#)

Examples

```
## Not run:  
# NSE IPO's  
library(nser)  
nseipo()  
  
## End(Not run)
```

nslive*NSE Live Market data*

Description

NSE Live Market data

Usage

```
nslive(x = "n50")
```

Arguments

x "n50" and "fo" for nifty 50 and F&O. DEFAULT value is "n50".

Details

Get live NSE market data of Nifty 50 and Futures & Options

Value

A dataframe with NSE Live market data.

Note

NSE pre-open market 09.00 hrs to 9.08 hrs (IST). Regular Trading Session 09.15 hrs to 15.30 hrs (IST)

Author(s)

Nandan L. Patil <tryanother609@gmail.com>

Source

<https://www1.nseindia.com/live_market/dynaContent/live_watch/equities_stock_watch.htm?cat=N>

See Also

[bhavprbhavfobhavtodaynseindexnseopen](#)

Examples

```
## Not run:  
# NSE Live market data for Nifty 50 stocks  
library(nser)  
nslive()  
  
# Live market for F&O stocks  
nslive("fo")  
  
## End(Not run)
```

nseopen

NSE Pre Open Market

Description

NSE Pre Open Market

Usage

```
nseopen(x = "n50")
```

Arguments

x "fo" for F&O stocks, "all" for all the stocks. Default is "n50" for NIFTY 50 stocks.

Details

Get NSE Pre open market data.

Value

A dataframe with NSE Pre open market data.

Note

NSE market opening time is 9.00 AM (IST). The NSE pre market closes at 9.08 AM (IST).

Author(s)

Nandan L. Patil <tryanother609@gmail.com>

Source

<https://www1.nseindia.com/live_market/dynaContent/live_watch/pre_open_market/pre_open_market.htm>

See Also

[bhavprbhavfobhavtoday](#)

Examples

```
## Not run:  
# NSE Pre market open data of Nifty 50 stocks  
library(nser)  
nseopen("n50")  
  
# Pre market for F&O stocks  
nseopen("fo")
```

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

nsetree	<i>Treemap for Nifty50 and F&O Securities</i>
---------	---

Description

Treemap for Nifty50 and F&O Securities

Usage

```
nsetree(x = "n50")
```

Arguments

x "n50" for NIFTY 50 Securities and "fo" for Futures and Options Securities.

Details

The function plots a treemap with the recent change in price of securities.

Value

treemap A Treemap of recent percent change in value of securities.

Author(s)

Nandan L. Patil <tryanother609@gmail.com>

Source

<https://www1.nseindia.com/live_market/dynaContent/live_watch/equities_stock_watch.htm?cat=N>

See Also

[bhavprbhavtodaybhavsbhavfos](#)

Examples

```
## Not run: # Treemap of NIFTY50 securities
nsetree()

# Treemap of F&O securities
nsetree("fo")

## End(Not run)
```

Index

* datasets

dailydata, 7

bhav, 2, 4–14

bhavfos, 3, 6, 15

bhavpr, 3, 4, 4, 6, 7, 9–15

bhavs, 4, 5, 15

bhavtoday, 3–6, 6, 8–10, 15

dailydata, 7

daytoweek, 8

fobhav, 4, 6, 9

fobhavtoday, 10, 11–14

nseindex, 11, 13

nseipo, 12

nselive, 11, 12

nseopen, 11–13, 14

nsetree, 8, 15