

# Package ‘nser’

December 14, 2022

**Type** Package

**Title** Bhavcopy and Live Market Data from National Stock Exchange (NSE)  
& Bombay Stock Exchange (BSE) India

**Version** 1.4.4

**Date** 2022-12-11

**Description** Download Current & Historical Bhavcopy. 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, curl

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**RoxygenNote** 7.2.3

**VignetteBuilder** knitr

**Config/testthat/edition** 3

**NeedsCompilation** no

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---

bhav

*Bhavcopy from NSE*

---

### Description

Bhavcopy from NSE

### Usage

```
bhav(x, se = "NSE")
```

### Arguments

x	numeric date format
se	Stock Exchange either 'NSE' or 'BSE'. Default is 'NSE'.

### Details

Gets Bhavcopy from NSE for the given date. The function tries to get the bhavcopy from two sources i.e., Old and New website of NSE.

### 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 on wards. 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](https://www1.nseindia.com/products/content/all_daily_reports.htm)>, <<https://www.bseindia.com/markets/marketinfo/Bhav>>

**See Also**

[bhavprbhavtoday](#)

**Examples**

```
#Download Bhavcopy from NSE
report = bhav("01072021") # Download bhavcopy for 01 July 2021
```

```
#Download bhavcopy from BSE
report = bhav("01072021", 'BSE')
```

---

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 (ddmmyyy)
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 '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/derivatives/equities/archieve\\_fo.htm](https://www1.nseindia.com/products/content/derivatives/equities/archieve_fo.htm)>

**See Also**

[bhavprbhavtodaybhavfobhavbhavs](#)

**Examples**

```
# 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()
```

---

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**

```
# Equity Bhavcopy PR
library(nser)
report = bhavpr("01072021")
```

---

bhavs

*Equity Bhavcopy through RSelenium*

---

**Description**

Equity Bhavcopy through RSelenium

**Usage**

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

**Arguments**

x                    numeric date format (ddmmyyy)  
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](https://www1.nseindia.com/products/content/equities/equities/archieve_eq.htm)>

**See Also**

[bhavprbhavtodaybhavfobhavbhavfos](#)

**Examples**

```
# 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()
```

---

bhavtoday	<i>Get Bhavcopy for the present day</i>
-----------	---

---

**Description**

Get Bhavcopy for the present day

**Usage**

```
bhavtoday(se = "NSE")
```

**Arguments**

se                    Stock Exchange either 'NSE' or 'BSE'. Default is 'NSE'.

**Details**

Gets todays bhavcopy from NSE. The function tries to get the bhavcopy from two sources Old and New website of 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>

**Source**

<[https://www1.nseindia.com/products/content/all\\_daily\\_reports.htm](https://www1.nseindia.com/products/content/all_daily_reports.htm)>, <<https://www.bseindia.com/markets/marketinfo/Bhav>>

**See Also**

[bhavprbhav](#)

## Examples

```
#Todays NSE Equity Bhavcopy
library(nser)
report = bhavtoday()

#Todays BSE Equity Bhavcopy
report = bhavtoday('BSE')
```

---

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

```
data(dailydata)
daytoweek(dailydata)
```

---

`daytomonth`*Convert Daily data of a stock to Monthly data*

---

**Description**

Convert Daily data of a stock to Monthly data

**Usage**

```
daytomonth(x)
```

**Arguments**

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

**Details**

Converts the Daily data of a stock to Monthly data.

**Value**

OHLC data in monthly format.

**Note**

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

**Author(s)**

Nandan L. Patil <tryanother609@gmail.com>

**See Also**

[bhavprbhavtodaybhavdaytoweek](#)

**Examples**

```
data(dailydata)
daytomonth(dailydata)
```

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

---

fdii	<i>Get latest FII/DII data.</i>
------	---------------------------------

---

**Description**

Get latest FII/DII data.

**Usage**

```
fdii()
```

**Details**

Data gathered from moneycontrol.

**Value**

Dataframe containing FII/DII data.

**Author(s)**

Nandan L. Patil <[tryanother609@gmail.com](mailto:tryanother609@gmail.com)>

**Source**

<[https://www.moneycontrol.com/stocks/marketstats/fii\\_dii\\_activity/index.php](https://www.moneycontrol.com/stocks/marketstats/fii_dii_activity/index.php)>

**See Also**

[nseipobhavfobhavtodaynseopen](#)

**Examples**

```
# NSE IPO's
library(nser)
fdii()
```

---

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](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	<i>Get F&amp;O Bhavcopy for the present day</i>
-------------	---

---

**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 available in the evening.

**Author(s)**

Nandan L. Patil <tryanother609@gmail.com>

**See Also**

[bhavprbhav](#)

**Examples**

```
#Todays F&O Bhavcopy
library(nser)
report = fobhavtoday()
```

---

nseindex

*NSE Nifty Indices*

---

**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](https://www1.nseindia.com/live_market/dynaContent/live_watch/live_index_watch.htm)>

**See Also**

[bhavprbhavfobhavtodaynseopenselive](#)

**Examples**

```
#Live status of Nifty Indices  
library(nser)  
nseindex()
```

---

`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 from moneycontrol.

**Value**

A dataframe of IPO's on NSE.

**Author(s)**

Nandan L. Patil <tryanother609@gmail.com>

**See Also**

[bhavprbhavfobhavtodaynseopen](#)

**Examples**

```
# NSE IPO's
library(nser)
nseipo()
```

---

`nselive`*NSE Live Market data*

---

**Description**

NSE Live Market data

**Usage**

```
nselive(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](https://www1.nseindia.com/live_market/dynaContent/live_watch/equities_stock_watch.htm?cat=N)>

**See Also**

[bhavprbhavfobhavtodaynseindexnseopen](#)

**Examples**

```
# NSE Live market data for Nifty 50 stocks
library(nser)
nselive()

# Live market for F&O stocks
nselive("fo")
```

---

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](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`*Treemap for Nifty50 and F&O Securities*

---

**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](https://www1.nseindia.com/live_market/dynaContent/live_watch/equities_stock_watch.htm?cat=N)>

**See Also**

[bhavprbhavtodaybhavsbhavfos](#)

**Examples**

```
# Treemap of NIFTY50 securities
nsetree()

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

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