

# Package ‘nser’

February 5, 2024

**Type** Package

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

**Version** 1.5.1

**Date** 2024-02-03

**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** utils, readr, magrittr, rvest, stringr, googleVis, dplyr,  
lubridate, purrr, curl, reticulate, xml2

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

**RoxygenNote** 7.3.1

**VignetteBuilder** knitr

**Author** Nandan Patil [cre, aut]

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

**Repository** CRAN

**NeedsCompilation** no

**Date/Publication** 2024-02-05 13:50:02 UTC

**R topics documented:**

bhav . . . . .	2
bhavpr . . . . .	3
bhavtoday . . . . .	4
dailydata . . . . .	5
daytomonth . . . . .	6
daytoweek . . . . .	7
fdii . . . . .	8
fobhav . . . . .	9
fobhavtoday . . . . .	10
nseindex . . . . .	11
nseipo . . . . .	12
nselive . . . . .	13
nseopen . . . . .	14
nsetree . . . . .	15
optbanknifty . . . . .	16
optnifty . . . . .	17
<b>Index</b>	<b>18</b>

---

 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://www.nseindia.com/all-reports>>, <<https://www.bseindia.com/markets/marketinfo/BhavCopy.aspx>>

**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')
```

---

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>

**Source**

<https://www.nseindia.com/all-reports>

**See Also**

[bhavbhavtoday](#)

**Examples**

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

---

bhavtoday

*Get Bhavcopy for the present day*

---

**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 be available in the evening

**Author(s)**

Nandan L. Patil <tryanother609@gmail.com>

**Source**

<<https://www.nseindia.com/all-reports>>, <<https://www.bseindia.com/markets/marketinfo/BhavCopy.aspx>>

**See Also**

[bhavprbhav](#)

**Examples**

```
## Not run:  
  
#Today's NSE Equity Bhavcopy, the data would be available usually after 6.30 PM.  
library(nser)  
report = bhavtoday()  
  
#Today's BSE Equity Bhavcopy  
report = bhavtoday('BSE')  
  
## 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 columns

**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**

```
library(nser)
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](mailto:tryanother609@gmail.com)>

**See Also**

[bhavprbhavtodaybhavdaytoweek](#)

**Examples**

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

---

daytoweek

*Convert Daily data of a stock to Weekly data*

---

**Description**

Convert Daily data of a stock to Weekly data

**Usage**

```
daytoweek(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

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

---

fdii

*Get latest FII/DII data.*

---

## 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>

## 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

[nseipobhavfobhavtodayseopen](#)

## Examples

```
## Not run:
# The function may fail when accessed outside from INDIA.

library(nser)
fdii()

## 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://www.nseindia.com/all-reports>>

**See Also**

[bhavprbhavtoday](#)

**Examples**

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

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 available in the evening.

**Author(s)**

Nandan L. Patil <tryanother609@gmail.com>

**See Also**

[bhavprbhav](#)

**Examples**

```
#Todays F&O Bhavcopy
library(nser)
try(stop(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**

```
## 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 from moneycontrol.

### **Value**

A dataframe of IPO's on NSE.

### **Author(s)**

Nandan L. Patil <tryanother609@gmail.com>

### **Source**

<<https://www.moneycontrol.com/ipo/ipo-snapshot/issues-open.html>>

### **See Also**

[bhavprbhavfobhavtodaynseopen](#)

### **Examples**

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

---

nslive	<i>NSE Live Market data</i>
--------	-----------------------------

---

**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://www.nseindia.com/market-data/live-market-indices>>

**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](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://www.nseindia.com/market-data/live-market-indices>>

**See Also**

[bhavprbhavtodaybhavfobhav](#)

**Examples**

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

---

optbanknifty

*Option Chain for NSE BANKNIFTY.*

---

**Description**

Option Chain for NSE BANKNIFTY.

**Usage**

```
optbanknifty()
```

**Details**

Get visual friendly display of Option chain of BANKNIFTY for the current expiry.

**Value**

A dataframe containing option chain of NSE BANKNIFTY.

**Author(s)**

Nandan L. Patil <tryanother609@gmail.com>

**Source**

<<https://www.nseindia.com/option-chain>>

**See Also**

[optniftybhavtodaynselivensetreenseipo](#)

**Examples**

```
## Not run: # Example: BANKNIFTY option chain  
optbanknifty()  
  
## End(Not run)
```

---

`optnifty`*Option Chain of NSE Nifty 50.*

---

**Description**

Option Chain of NSE Nifty 50.

**Usage**

```
optnifty()
```

**Details**

Get visual friendly display of Option chain of NIFTY 50 for the current expiry.

**Value**

A dataframe containing option chain of NSE Nifty 50.

**Author(s)**

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

**Source**

<<https://www.nseindia.com/option-chain>>

**See Also**

[optbankniftybhavtodaynselivensetreenseipo](#)

**Examples**

```
## Not run: # Example: NIFTY 50 option chain
optnifty()

## End(Not run)
```

# Index

## \* datasets

dailydata, 5

bhav, 2, 4–8, 10–15

bhavpr, 3, 3, 5, 7, 9–15

bhavtoday, 3, 4, 4, 6, 7, 9, 15–17

dailydata, 5

daytomonth, 6

daytoweek, 7, 7

fdii, 8

fobhav, 9, 15

fobhavtoday, 8, 10, 11–14

nseindex, 11, 13

nseipo, 8, 12, 16, 17

nselive, 11, 13, 16, 17

nseopen, 8, 11–13, 14

nsetree, 6, 15, 16, 17

optbanknifty, 16, 17

optnifty, 16, 17