

s-X-AIPI¹ self-X Data Exploration in R

The “selfX” R package includes the implementation of several functions to perform feature selection in a more autonomic way. This R package is implemented as open-source software and offered to the R community for use and improvement.

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License	<i>GNU General Public License (GPL) v3</i>

Instructions to install “selfX” package in R Studio

To start working with the packages in R, we first need to install them. Remember that, after installation, you must first load the package for using the functions.

- Open R studio.

```
R version 4.3.2 (2023-10-31 ucrt) -- "Eye Holes"
Copyright (C) 2023 The R Foundation for Statistical Computing
Platform: x86_64-w64-mingw32/x64 (64-bit)

R es un software libre y viene sin GARANTIA ALGUNA.
Usted puede redistribuirlo bajo ciertas circunstancias.
Escriba 'license()' o 'licence()' para detalles de distribucion.

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Escriba 'contributors()' para obtener más información y
'citation()' para saber cómo citar R o paquetes de R en publicacio
nes.

Escriba 'demo()' para demostraciones, 'help()' para el sistema on-
line de ayuda,
o 'help.start()' para abrir el sistema de ayuda HTML con su navega
dor.
Escriba 'q()' para salir de R.

[workspace loaded from ~/.RData]

>
```

- Use `install.packages` function to install "devtools" package from CRAN

```
> install.packages("devtools")

Installing package into 'C:/../AppData/Local/R/win-library/4.3'
(as 'lib' is unspecified)
also installing the dependencies 'credentials', 'gitcreds', 'gert'
, 'gh', 'downlit', 'xopen', 'usethis', 'pkgdown', 'rcmdcheck', 'rem
otes', 'roxygen2', 'rversions', 'urlchecker'

probando la URL 'https://cran.rstudio.com/bin/windows/contrib/4.3/
credentials_2.0.1.zip'
Content type 'application/zip' length 221665 bytes (216 KB)
```

¹ The s-X-AIPI project has received funding from the European Union's Horizon Europe research and innovation programme under grant agreement N° 101058715 ([s-X-AIPI](#))

```
downloaded 216 KB
probando la URL 'https://cran.rstudio.com/bin/windows/contrib/4.3/
gitcreds_0.1.2.zip'
Content type 'application/zip' length 99460 bytes (97 KB)
downloaded 97 KB

probando la URL 'https://cran.rstudio.com/bin/windows/contrib/4.3/
gert_2.0.1.zip'
Content type 'application/zip' length 3492490 bytes (3.3 MB)
downloaded 3.3 MB

probando la URL 'https://cran.rstudio.com/bin/windows/contrib/4.3/
gh_1.4.0.zip'
Content type 'application/zip' length 105308 bytes (102 KB)
downloaded 102 KB

probando la URL 'https://cran.rstudio.com/bin/windows/contrib/4.3/
downlit_0.4.3.zip'
Content type 'application/zip' length 113596 bytes (110 KB)
downloaded 110 KB

probando la URL 'https://cran.rstudio.com/bin/windows/contrib/4.3/
xopen_1.0.0.zip'
Content type 'application/zip' length 24823 bytes (24 KB)
downloaded 24 KB

probando la URL 'https://cran.rstudio.com/bin/windows/contrib/4.3/
usethis_2.2.3.zip'
Content type 'application/zip' length 898514 bytes (877 KB)
downloaded 877 KB

probando la URL 'https://cran.rstudio.com/bin/windows/contrib/4.3/
pkgdown_2.0.7.zip'
Content type 'application/zip' length 802322 bytes (783 KB)
downloaded 783 KB

probando la URL 'https://cran.rstudio.com/bin/windows/contrib/4.3/
rcmdcheck_1.4.0.zip'
Content type 'application/zip' length 170449 bytes (166 KB)
downloaded 166 KB

probando la URL 'https://cran.rstudio.com/bin/windows/contrib/4.3/
remotes_2.4.2.1.zip'
Content type 'application/zip' length 398684 bytes (389 KB)
downloaded 389 KB

probando la URL 'https://cran.rstudio.com/bin/windows/contrib/4.3/
roxygen2_7.3.1.zip'
Content type 'application/zip' length 1079450 bytes (1.0 MB)
downloaded 1.0 MB

probando la URL 'https://cran.rstudio.com/bin/windows/contrib/4.3/
rversions_2.1.2.zip'
Content type 'application/zip' length 67347 bytes (65 KB)
downloaded 65 KB

probando la URL 'https://cran.rstudio.com/bin/windows/contrib/4.3/
urlchecker_1.0.1.zip'
Content type 'application/zip' length 36322 bytes (35 KB)
downloaded 35 KB

probando la URL 'https://cran.rstudio.com/bin/windows/contrib/4.3/
devtools_2.4.5.zip'
Content type 'application/zip' length 435953 bytes (425 KB)
downloaded 425 KB

package 'credentials' successfully unpacked and MD5 sums checked
package 'gitcreds' successfully unpacked and MD5 sums checked
```

```

package 'gert' successfully unpacked and MD5 sums checked
package 'gh' successfully unpacked and MD5 sums checked
package 'downlit' successfully unpacked and MD5 sums checked
package 'xopen' successfully unpacked and MD5 sums checked
package 'usethis' successfully unpacked and MD5 sums checked
package 'pkgdown' successfully unpacked and MD5 sums checked
package 'rcmdcheck' successfully unpacked and MD5 sums checked
package 'remotes' successfully unpacked and MD5 sums checked
package 'roxygen2' successfully unpacked and MD5 sums checked
package 'rversions' successfully unpacked and MD5 sums checked
package 'urlchecker' successfully unpacked and MD5 sums checked
package 'devtools' successfully unpacked and MD5 sums checked

The downloaded binary packages are in
  C:\..\AppData\Local\Temp\RtmpYHHBxB\downloaded_packages
>

```

- Download the file *selfX_0.1.0.tar.gz* with the source code of the package.
- Use `install_local` function to install "selfx" package from the file (*.tar.gz*) downloaded in the previous step. Remember to correctly specify the local path of the file.

```

> devtools::install_local("selfX_0.1.0.tar.gz")
These packages have more recent versions available.
It is recommended to update all of them.
which would you like to update?

1: All
2: CRAN packages only
3: None
4: parallelly (1.36.0 -> 1.37.0 ) [CRAN]
5: RcppArmad... (0.12.6.6.1 -> 0.12.8.0.0) [CRAN]
6: recipes (1.0.9 -> 1.0.10 ) [CRAN]

Enter one or more numbers, or an empty line to skip updates:
— R CMD build —

✓ checking for file 'C:\..\AppData\Local\Temp\RtmpYHHBxB\remotes86c3a8b2a79\selfx\DESCRIPTION' (543ms)
- preparing 'selfx':
✓ checking DESCRIPTION meta-information
- checking for LF line-endings in source and make files and shell scripts
- checking for empty or unneeded directories
- building 'selfX_0.1.0.tar.gz'

Installing package into 'C:/../AppData/Local/R/win-library/4.3'
(as 'lib' is unspecified)
* installing *source* package 'selfx' ...
** using staged installation
** R
** byte-compile and prepare package for lazy loading
** help
*** installing help indices
** building package indices
** testing if installed package can be loaded from temporary location
** testing if installed package can be loaded from final location
** testing if installed package keeps a record of temporary installation path
* DONE (selfx)
>

```

- Load the package

```

> library(selfx)
Loading required package: foreach

```