

## S1 Table. R-Packages for all analyses

Package	Version	Maintainer	Citation
caret	6.0.92	Max Kuhn <mxkuhn@gmail.com>	Kuhn, M. (2022). <i>caret: Classification and Regression Training</i> . <a href="https://github.com/topepo/caret/">https://github.com/topepo/caret/</a>
conflicted	1.1.0	Hadley Wickham <hadley@rstudio.com>	Wickham, H. (2021). <i>conflicted: An Alternative Conflict Resolution Strategy</i> . <a href="https://cran.r-project.org/package=conflicted">https://cran.r-project.org/package=conflicted</a>
datascience	0.2.4	Björn Büdenbender <b_buedenbender@yahoo.de>	Büdenbender, B. (2022). <i>datascience: Dataanalysis and Science Utility Functions</i> . <a href="https://buedenbender.github.io/datascience/">https://buedenbender.github.io/datascience/</a>
dplyr	1.0.9	Hadley Wickham <hadley@rstudio.com>	Wickham, H., François, R., Henry, L., & Müller, K. (2022). <i>dplyr: A Grammar of Data Manipulation</i> . <a href="https://cran.r-project.org/package=dplyr">https://cran.r-project.org/package=dplyr</a>
forcats	0.5.1	Hadley Wickham <hadley@rstudio.com>	Wickham, H. (2021). <i>forcats: Tools for Working with Categorical Variables (Factors)</i> . <a href="https://cran.r-project.org/package=forcats">https://cran.r-project.org/package=forcats</a>
foreign	0.8.82	R Core Team <R-core@R-project.org>	R Core Team. (2022). <i>foreign: Read Data Stored by Minitab, S, SAS, SPSS, Stata, Systat, Weka, dBase, ...</i> <a href="https://svn.r-project.org/R-packages/trunk/foreign/">https://svn.r-project.org/R-packages/trunk/foreign/</a>
ggplot2	3.3.6	Thomas Lin Pedersen <thomas.pedersen@rstudio.com>	Wickham, H., Chang, W., Henry, L., Pedersen, T. L., Takahashi, K., Wilke, C., Woo, K., Yutani, H., & Dunnington, D. (2022). <i>ggplot2: Create Elegant Data Visualisations Using the Grammar of Graphics</i> . <a href="https://cran.r-project.org/package=ggplot2">https://cran.r-project.org/package=ggplot2</a>
ggthemes	4.2.4	Jeffrey B. Arnold <jeffrey.arnold@gmail.com>	Arnold, J. B. (2021). <i>ggthemes: Extra Themes, Scales and Geoms for ggplot2</i> . <a href="https://github.com/jrnold/ggthemes">https://github.com/jrnold/ggthemes</a>
glue	1.6.2	Jennifer Bryan <jenny@rstudio.com>	Hester, J., & Bryan, J. (2022). <i>glue: Interpreted String Literals</i> . <a href="https://cran.r-project.org/package=glue">https://cran.r-project.org/package=glue</a>
gridExtra	2.3	Baptiste Auguie <baptiste.auguie@gmail.com>	Auguie, B. (2017). <i>gridExtra: Miscellaneous Functions for "Grid" Graphics</i> . <a href="https://cran.r-project.org/package=gridExtra">https://cran.r-project.org/package=gridExtra</a>
iml	0.11.0	Christoph Molnar <christoph.molnar@gmail.com>	Molnar, C., Bischl, B., & Casalicchio, G. (2018). <i>iml: An R package for Interpretable Machine Learning</i> . <i>JOSS</i> , 3(26), 786. <a href="https://doi.org/10.21105/joss.00786">https://doi.org/10.21105/joss.00786</a>

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lattice	0.20.45	Deepayan Sarkar <deepayan.sarkar@r-project.org>	Sarkar, D. (2008). <i>Lattice: Multivariate Data Visualization with R</i> . Springer. <a href="http://lmdvr.r-forge.r-project.org">http://lmdvr.r-forge.r-project.org</a>
mlbench	2.1.3	Friedrich Leisch <Friedrich.Leisch@R-project.org>	Leisch, F., & Dimitriadou., E. (2021). <i>mlbench: Machine Learning Benchmark Problems</i> . <a href="https://cran.r-project.org/package=mlbench">https://cran.r-project.org/package=mlbench</a>
psych	2.2.5	William Revelle <revelle@northwestern.edu>	Revelle, W. (2022). <i>psych: Procedures for Psychological, Psychometric, and Personality Research</i> . <a href="https://personality-project.org/r/psych/">https://personality-project.org/r/psych/</a>
purrr	0.3.4	Lionel Henry <lionel@rstudio.com>	Henry, L., & Wickham, H. (2020). <i>purrr: Functional Programming Tools</i> . <a href="https://cran.r-project.org/package=purrr">https://cran.r-project.org/package=purrr</a>
randomForest	4.7.1	Andy Liaw <andy_liaw@merck.com>	Breiman, L., Cutler, A., Liaw, A., & Wiener, M. (2022). <i>randomForest: Breiman and Cutler's Random Forests for Classification and Regression</i> . Eddelbuettel, D., Francois, R., Allaire, J. J., Ushey, K., Kou, Q., Russell, N., Ucar, I., Bates, D., & Chambers, J. (2022). <i>Rcpp: Seamless R and C++ Integration</i> . <a href="https://cran.r-project.org/package=Rcpp">https://cran.r-project.org/package=Rcpp</a>
Rcpp	1.0.9	Dirk Eddelbuettel <edd@debian.org>	Wickham, H., Hester, J., & Bryan, J. (2022). <i>readr: Read Rectangular Text Data</i> . <a href="https://cran.r-project.org/package=readr">https://cran.r-project.org/package=readr</a>
readr	2.1.2	Jennifer Bryan <jenny@rstudio.com>	Therneau, T., & Atkinson, B. (2022). <i>rpart: Recursive Partitioning and Regression Trees</i> . <a href="https://cran.r-project.org/package=rpart">https://cran.r-project.org/package=rpart</a>
rpart	4.1.16	Beth Atkinson <atkinson@mayo.edu>	Bergmeir, C. (2021). <i>RSNNS: Neural Networks using the Stuttgart Neural Network Simulator (SNNS)</i> . <a href="https://github.com/cbergmeir/RSNNS">https://github.com/cbergmeir/RSNNS</a>
RSNNS	0.4.14	Christoph Bergmeir <c.bergmeir@decsai.ugr.es>	Wickham, H., & Seidel, D. (2022). <i>scales: Scale Functions for Visualization</i> . <a href="https://cran.r-project.org/package=scales">https://cran.r-project.org/package=scales</a>
scales	1.2.0	Hadley Wickham <hadley@rstudio.com>	Wickham, H. (2019). <i>stringr: Simple, Consistent Wrappers for Common String Operations</i> . <a href="https://cran.r-project.org/package=stringr">https://cran.r-project.org/package=stringr</a>
stringr	1.4.0	Hadley Wickham <hadley@rstudio.com>	Müller, K., & Wickham, H. (2022). <i>tibble: Simple Data Frames</i> . <a href="https://cran.r-project.org/package=tibble">https://cran.r-project.org/package=tibble</a>
tibble	3.1.7	Kirill Müller <krlmlr+r@mailbox.org>	

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tictoc	1.0.1	Sergei Izrailev <sizrailev@collective.com>	Izrailev, S. (2021). <i>tictoc: Functions for Timing R Scripts, as Well as Implementations of Stack and List Structures</i> . <a href="https://github.com/collectivemedia/tictoc">https://github.com/collectivemedia/tictoc</a>
tidyr	1.2.0	Hadley Wickham <hadley@rstudio.com>	Wickham, H., & Girlich, M. (2022). <i>tidyr: Tidy Messy Data</i> . <a href="https://cran.r-project.org/package=tidyr">https://cran.r-project.org/package=tidyr</a>
tidyverse	1.3.1	Hadley Wickham <hadley@rstudio.com>	Wickham, H. (2021). <i>tidyverse: Easily Install and Load the Tidyverse</i> . <a href="https://cran.r-project.org/package=tidyverse">https://cran.r-project.org/package=tidyverse</a>