LUISELY DOZA, Shepherd University, Shepherdstown, WV, 25443, and JASON MILLER, Department of Computer Science, Mathematics, and Engineering, Shepherd University, Shepherdstown, WV 25443. Creating Python Algorithms to Mimic R Functions from the R Stats Package.

While R and Python are the most used languages within Data Analytics, the differences between them are becoming less polarized as it is now possible to complete the same tasks using both. A Python library developed from analyzing original R source code would help users cross-reference between both platforms. To design the Python algorithms, pseudocode was produced from registering the source code of different R stats functions. A Python test case was generated that would input result textfiles from both scripts and strive to output 0 differences to check for compatibility. So far, several R functions were able to be mimicked and there is still continued work being done to expand the scripts. We hope to later integrate the R and Python scripts into a web application to better display the results.