Proiect de Certetare Lab4

**Language chosen: documentation community**

R has been chosen over rivaling programming languages like Python or MATLAB that also cover statistical computing and data analysis because of the numerous built-in packages to handle multivariate statistics like stats, caret, cluster, NbClust as well as the tools to display the results generated like ggplot2 or corrplot. R also offers integration with excel as well as the means of handling mixed data types like dplyr and tidyr that are present in the current scenario.

It is also worth mentioning the extensiveness of R documentation and tutorials offered by portals like rdocumentation and r-bloggers where you can find official documentation and also community created guides and articles.

The main reason R has been chosen over MATLAB is the open-source aspect of R, offering state-of-the-art statistical tools without the licensing fees.

Python doesn’t fall short of functionality however R has been chosen over because of it’s seamless function and package integrations as well as general ease of use, leaving more time for development over package management and deployment.