**PROJECT DESCRIPTION**

Our project yields to show how the principal component analysis, explanatory factor analysis, canonical correlation analysis, discriminant analysis and the cluster analysis work on a given set of data within a ‘csv’ file.

In order to achieve this, our project implemented a series of Phyton libraries, each one of them covering a different analysis inside a case study that converges data from a given csv files and outputs certain graphs, scatter plots, line plots, correlation circles, heapmaps, treemaps, dendograms and correlograms showing the result of the given analysis.

We didn’t made our won API as we found the one offered by PyCharm good enough for what we had to implement.