FDSAI IX

The K-means algorithm. Apply the PCA algorithm for the MNIST dataset (sursa: https://yann.lecun.com/exdb/mnist/). Use as an example the Jupyter notebook lab from Introduction in Statistical Learning (https://github.com/intro-stat-learning/ISLP_labs/blob/stable/Ch12-unsup-lab.ipynb).

 $^{^{1}\}mathrm{Without}$ Matrix $\mathit{completion}$ and $\mathit{Hierarchical}$ $\mathit{clustering}.$