Data Analytics

111-2 Homework #08
Due at 23h59, May 14, 2023; files uploaded to NTU-COOL

1. (30%) Apply k-means and hierarchical clustering to the ORL face dataset. Set $k = 2$ in k-means and select 2 clusters in hierarchical clustering. Do the clustering results match the two genders?

2. (60%) Drop the "origin" variable from AutoMPG and apply k-means, hierarchical clustering, and DBSCAN to the modified AutoMPG. Do the clustering results match the origin? Compare and discuss the results with those from the supervised learning methods done in HW#07-EX3.