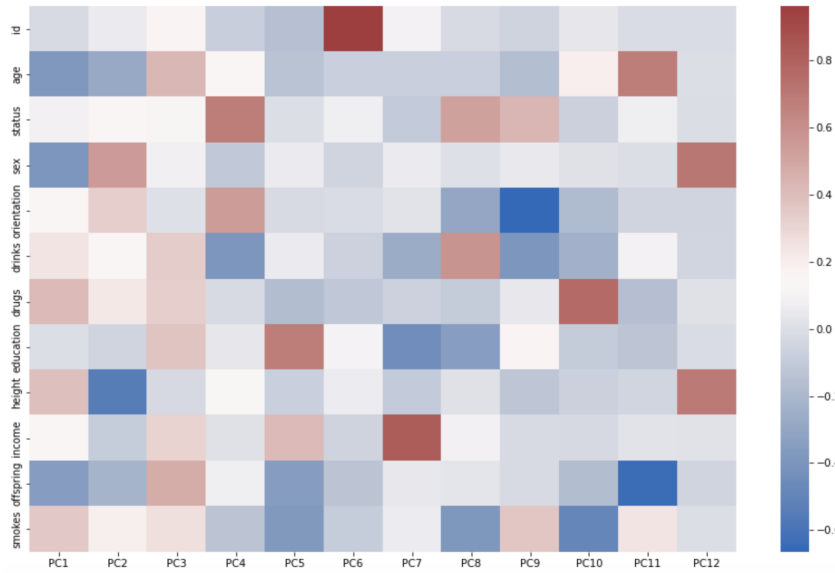


Appendix

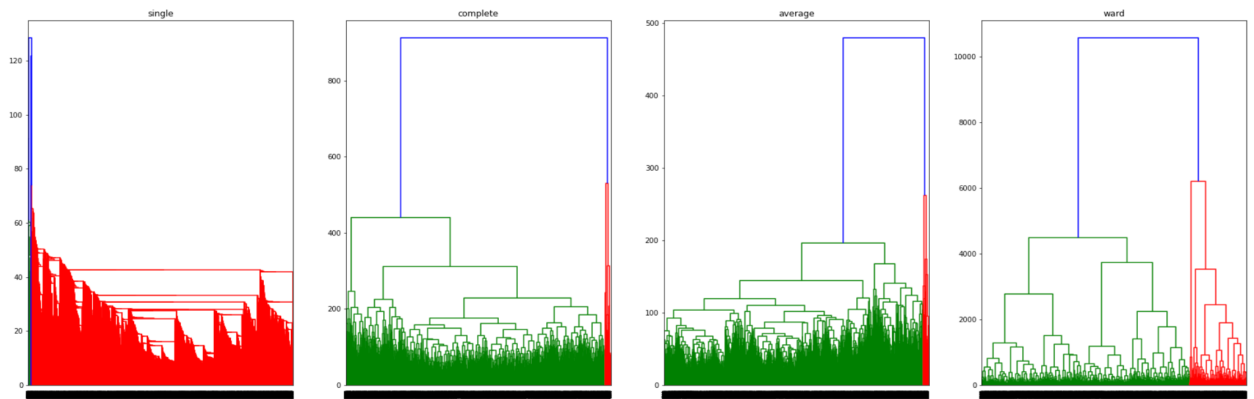
PCA

- Figure 1. The correlation matrix heatmap shows the correlation between each principal component

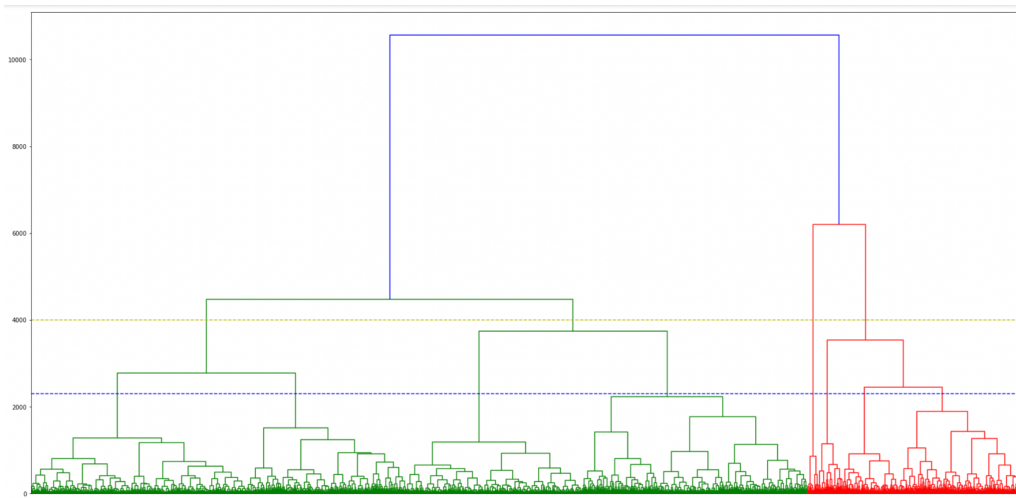


H-Clustering

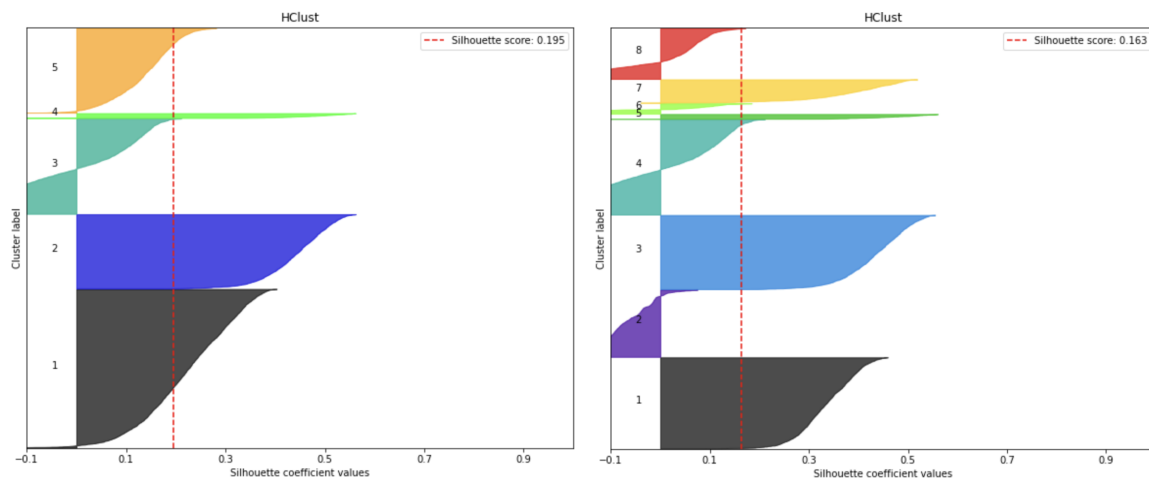
- Figure 2. The dendrogram of four different linkage methods.



- Figure 3. The dendrogram for ward linkage method.

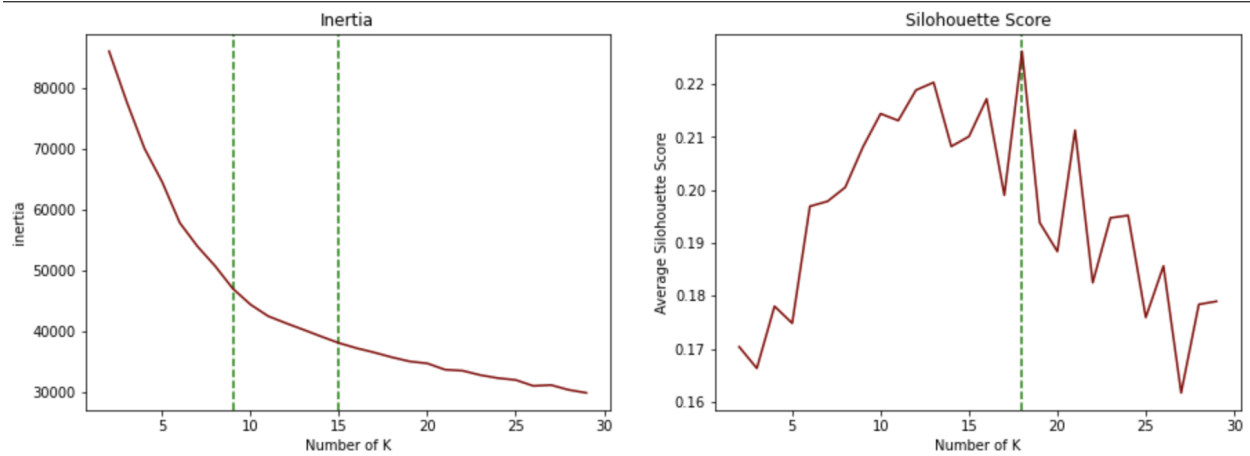


- Figure 4. The silhouette score plots for 5 clusters and 8 clusters.



K-Means Clustering

- Figure 5. The inertia plot and silhouette Score for choosing an optimal K.



- Figure 6. The silhouette score plot for clusters of 16.

