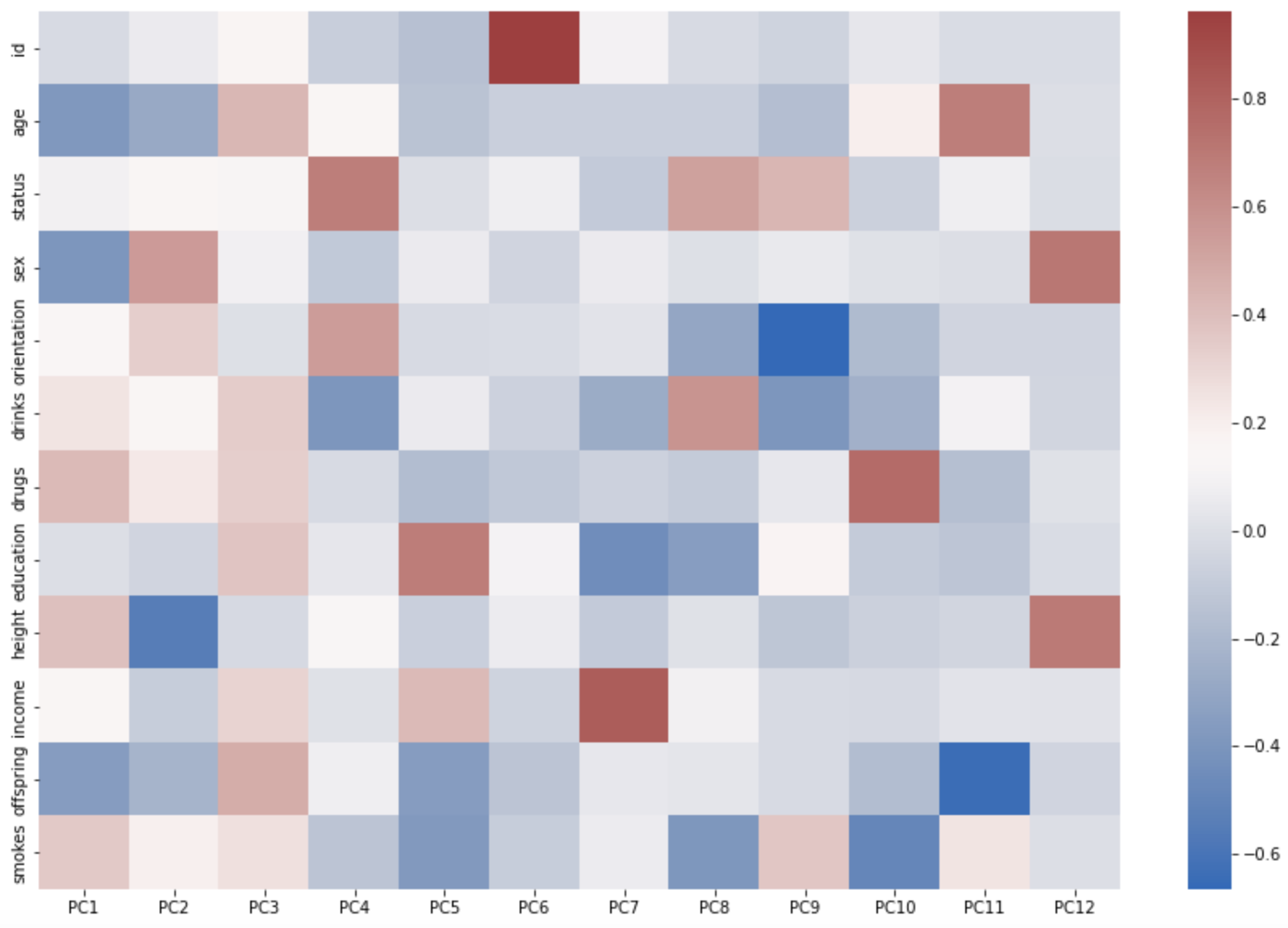
**Appendix**

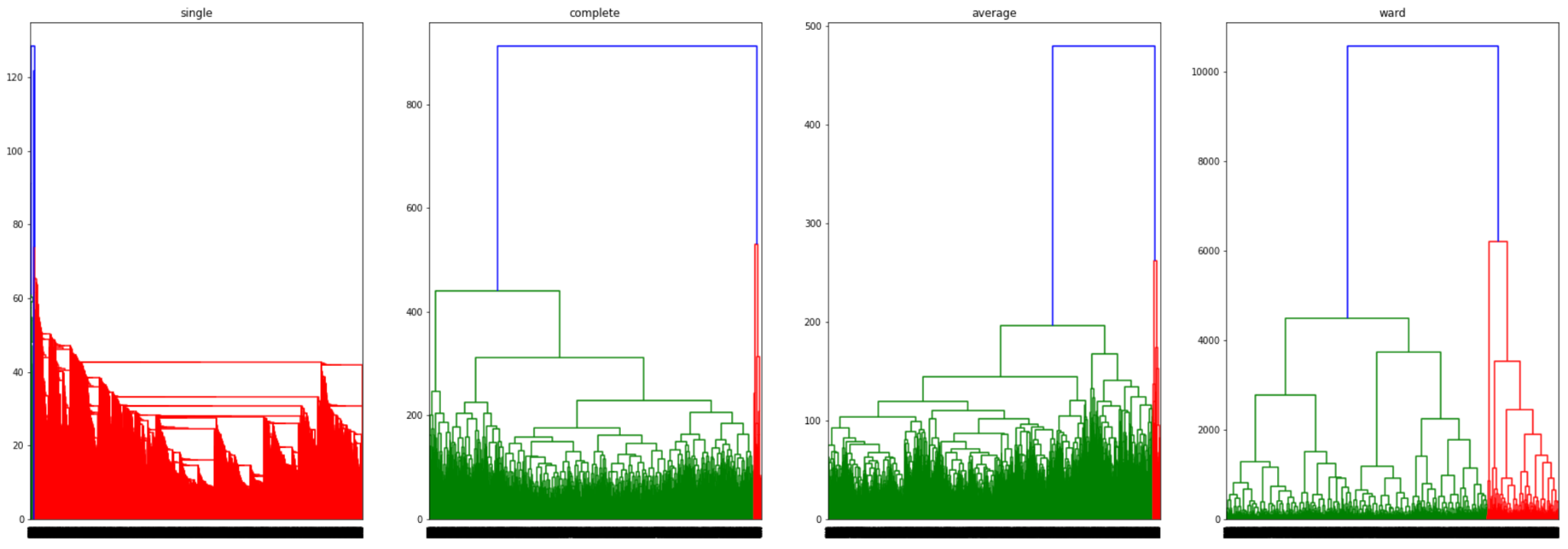
**PCA**

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

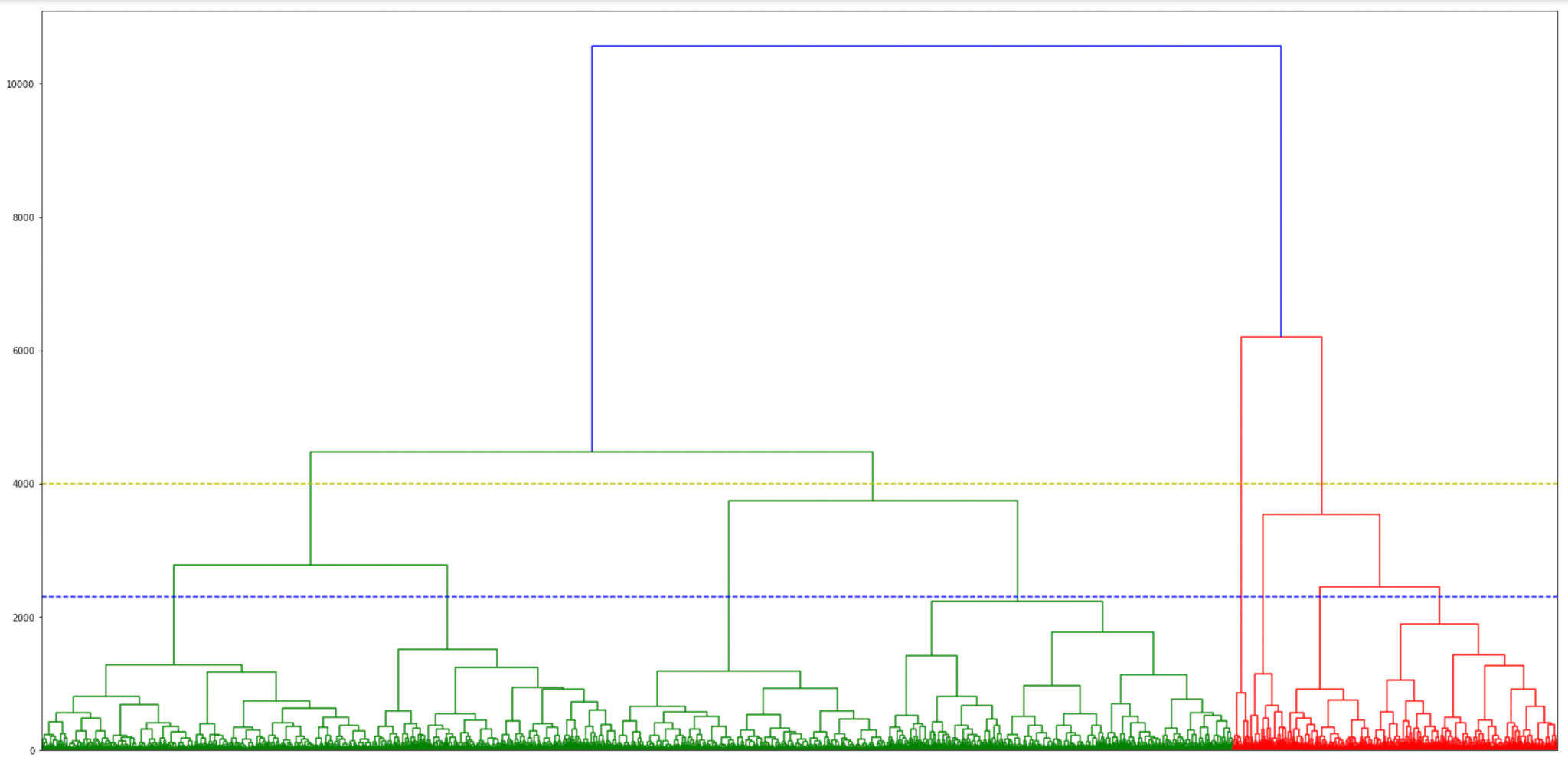
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**H-Clustering**

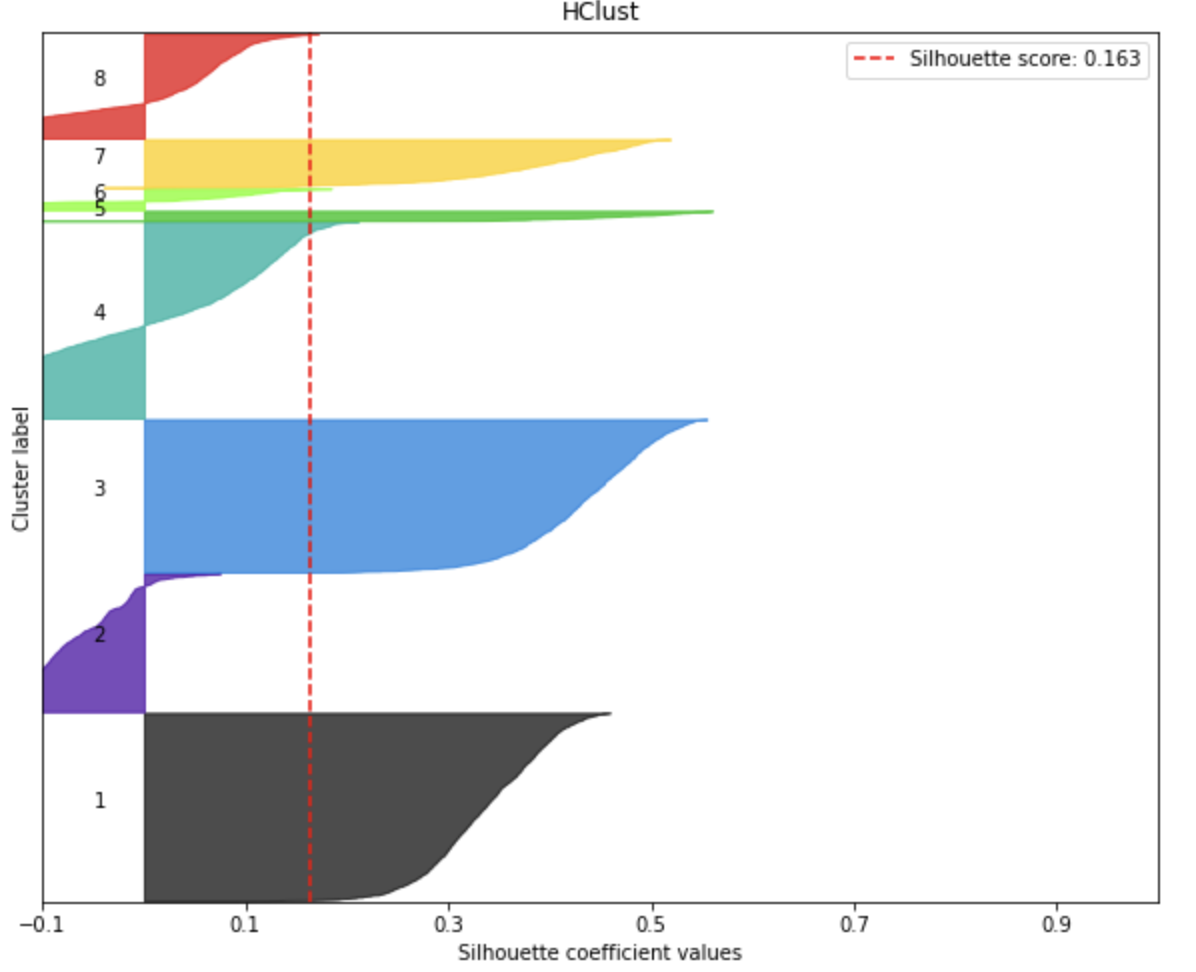
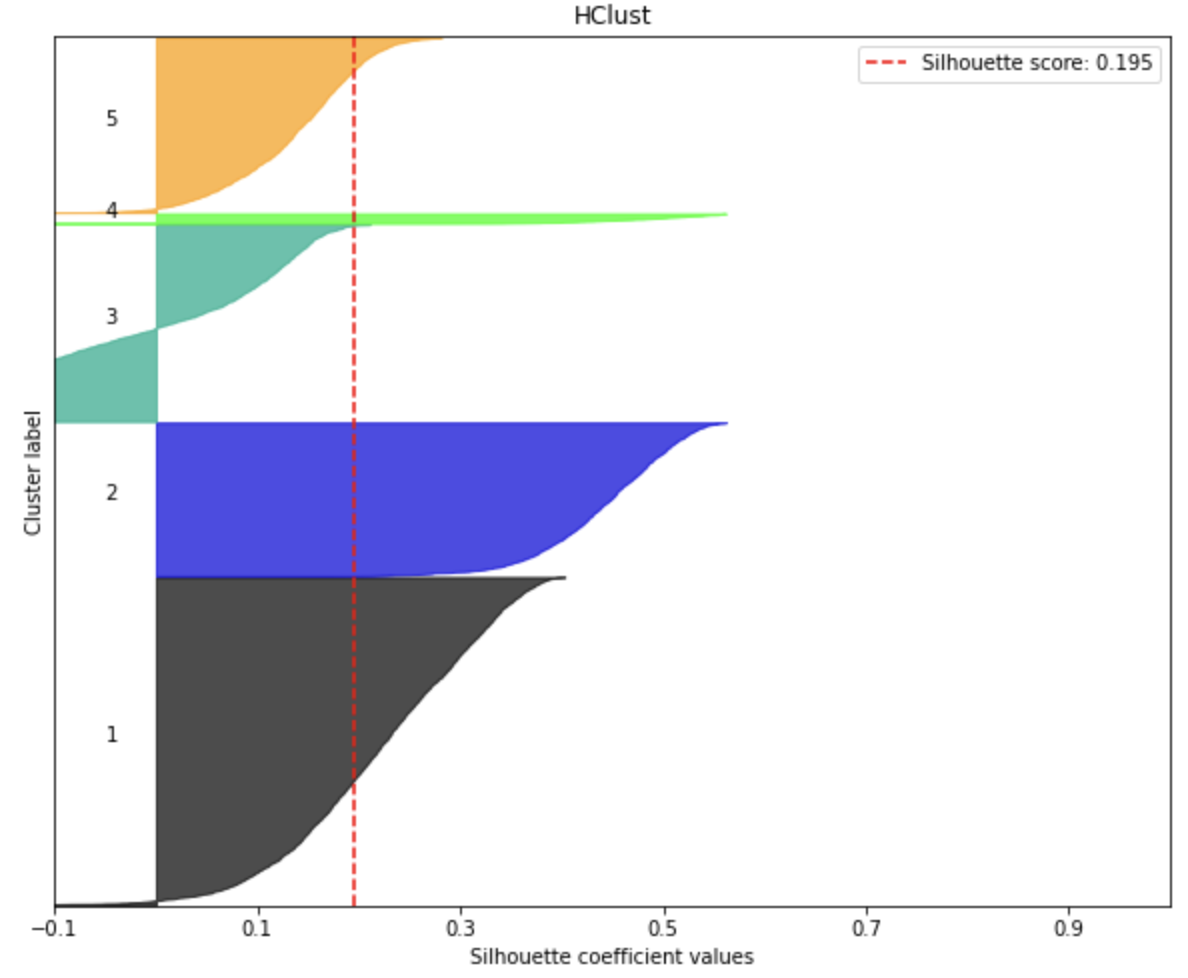
* Figure 2. The dendrogram of four different linkage methods.



* Figure 3. The dendrogram for ward linkage method.

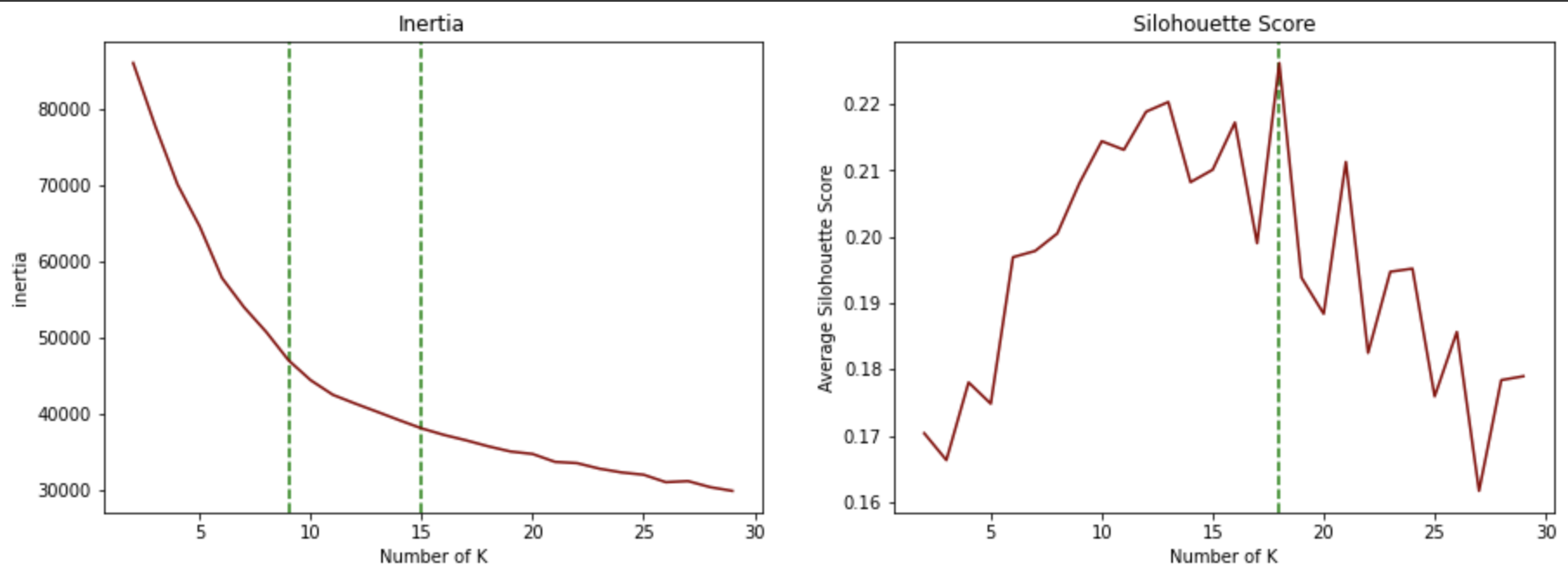


* Figure 4. The silhouette score plots for 5 clusters and 8 clusters.



**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.

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