

Assignment 4

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1 Discussion

For this experiment, we applied KMeans and KMedoids clustering on our data after no normalization, Z-score normalization, and Minmax normalization. The two features chosen for clustering were area mean and smoothness mean. We can see that normalization does make a difference, as the boundaries for the clusters were more defined for both KMeans and KMedoids, however it may not have been necessary for our 2 features, as the data was already pretty well clustered and defined with no normalization, especially after using KMedoids. There also appeared to be little to difference between z-score and minmax normalization for both KMeans and KMedoids. KMedoids appeared to have tighter clusters, which makes sense as KMeans is sensitive to outliers. Overall it's hard to say if one method performed better than the other, although I'd say KMedoids performed better for our data due to having tighter, more defined clusters than KMeans.