Experiment Results

Kmeans:

1. Number of cluster = 2 , max_iter = 1000 , n_init = 100
   Silhouette score = 0.567

2. Number of cluster = 5 , max_iter = 10000 , n_init = auto
   Silhouette score = 0.634

3. Number of cluster = 6 , max_iter = 300 , algorithm = elkan
   Silhouette score = 0.660

4. Number of cluster = 8 , max_iter = 500 , algorithm = elkan
   Silhouette score = 0.716

5. Number of cluster = 6 , max_iter = 100 , algorithm = elkan , n_init = 21
   Silhouette score = 0.725

Agglomerative Clustering:

1. Number of cluster = 4 , metric = eculidean , linkage = ward
   Silhouetee score = 0.681

2. Number of cluster = 5 , metric = cosine , linkage = avrage
   Silhouette = 0.544

3. Number of cluster = 6 , metric = manhattan , linkage = complete
   Silhouette = 0.647

4. Number of cluster = 6 , metric = minkowski , linkage = avrage
   Silhouette = 0.668

5. Number of cluster = 6 , metric = eculidean , linkage = ward
   Silhouette = 0.725

DBSCAN :

1. Eps = 1.0 , min_sample = 30
   Silhoute score = 0.647

2. eps = 2.0 , min_sample = 30
   Silhouette score = 0.677

3. eps = 2.5 , min_sample = 200
   Silhouette score = 0.690

4. eps = 2.0 , min_sample = 40
   Silhouette score = 0.562

5. eps = 2.67 , min_Sample = 10
   Silhouette score = 0.692