K-Means

Experiment 1
n_clusters=6, init='random', n_init=10
KMeans: 0.7251181630059241

Experiment 2
n_clusters=3, max_iter=50, tol=0.1
KMeans: 0.5856458534327691

Experiment 3
n_clusters=4, n_init=40 , max_iter=900, algorithm='elkan'
KMeans: 0.6813192037113843

Experiment 4
n_clusters=5, n_init=5, tol=0.01
KMeans: 0.7017936925795124

Experiment 5
 n_clusters=4, max_iter=500, tol=0.00001
KMeans: 0.6813192037113843

Agglomerative

Experiment 6
n_clusters=7, metric='manhattan', linkage='complete'
Agglomerative: 0.6687245324014567

Experiment 7
n_clusters=1, metric='cosine', linkage='average'
Agglomerative: -1

Experiment 8
n_clusters=3, linkage='single', compute_distances=True
Agglomerative: 0.5866220981494794

Experiment 9
n_clusters= None, distance_threshold= 1
Agglomerative: 0.396991703133375

Experiment 10
n_clusters=6, linkage='average', compute_full_tree=True
Agglomerative: 0.6680458764033119

DBSCAN

Experiment 11
eps=0.2, min_samples=8
DBSCAN: -0.5472800071967577

Experiment 12
eps=0.9, min_samples=4, metric='manhattan', algorithm='kd_tree'
DBSCAN: 0.4984837251400431

Experiment 13
leaf_size=100, p=10
DBSCAN: 0.28865209433880534

Experiment 14
eps=1.0, min_samples=3, algorithm='brute'
DBSCAN: 0.713499236081091

Experiment 15
metric= 'cosine', algorithm='brute'
DBSCAN: -1