

k-means :

1 parameters

cluster_options=[4] , init='k-means++', n_init=10,

Result:0.681

2: cluster_options=[10] , init='k-means++', n_init=10,

Result:0.712

3: cluster_options=[9] , init=random', n_init=10,

Result:0.627

4: cluster_options=[15] , init=random', n_init=17,

Result:0.473

5: cluster_options=[7] , init=k-means++', n_init=8,

Result:0.702

Agglomerative Clustering:

parameters:

1:

method= ward, optimal_k_agglomerative =6

result:0.726

2:

method:ward, , optimal_k_agglomerative =8

result:0.709

:3

method:average, , optimal_k_agglomerative =4

result:0.681

4:

method:average, , optimal_k_agglomerative =12

result:0.694

5:

method:complete, , optimal_k_agglomerative =5

result:0.692

6: method:complete, , optimal_k_agglomerative =2

result:0.509

DBSCAN

parameters:

1:

eps_range : 0.2, 2.5, 0.2), range(3, 10)

result:0.722

2:

eps_range : 0.5, 5, 0.3), range(2, 12)

result:0.722

:3

eps_range : 0.1, 1, 0.2), range(1, 10)

result:0.677

4:

eps_range : 0.1, 1, 0.5), range(1, 10)

result:0.475

5:

eps_range : 0.5, 7, 0.4), range(1, 20)

result:0.721