DAVIES BOULDIEN INDEX

When k = 5

NumObservations: 15839

InspectedK: [1 2 3 4 5 6]

CriterionValues: [NaN 0.4359 0.4502 0.3000 0 0]

OptimalK: 5

When k = 6

NumObservations: 15839

InspectedK: [1 2 3 4 5 6]

CriterionValues: [NaN 0.4350 0.4955 0.3837 0.2684 0]

OptimalK: 6

GOOGLE NEWS

When k = 5

NumObservations: 17782

InspectedK: [1 2 3 4 5 6]

CriterionValues: [NaN 0.3201 0.3394 0.2999 0 0]

OptimalK: 5

When k = 6

NumObservations: 17782

InspectedK: [1 2 3 4 5 6]

CriterionValues: [NaN 0.4308 0.4297 0.3294 0.1304 0]

OptimalK: 6

Evaluate the optimal number of clusters using the Calinski-Harabasz criterion.

K = 5

NumObservations: 15839

InspectedK: [1 2 3 4 5 6]

CriterionValues: [NaN 5.4649e+04 6.9165e+04 1.0175e+05 Inf Inf]

OptimalK: 5

K=6

NumObservations: 15839

InspectedK: [1 2 3 4 5 6]

CriterionValues: [NaN 5.7063e+04 8.8722e+04 9.4843e+04 1.5422e+05 Inf]

OptimalK: 6

K =5 –googleNews

NumObservations: 17782

InspectedK: [1 2 3 4 5 6]

CriterionValues: [NaN 1.0741e+05 1.9363e+05 3.5936e+05 Inf Inf]

OptimalK: 5

K= 6 -googleNews

NumObservations: 17782

InspectedK: [1 2 3 4 5 6]

CriterionValues: [NaN 7.5567e+04 1.1766e+05 1.5684e+05 2.1669e+05 Inf]

OptimalK: 6