

CSE - 4255 Data Mining and Warehousing Lab

Comparison Between the Performance of K - Means and K - Medoids Algorithm in Clustering

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- 1 Problem Definition
- 2 Dataset Description
- 3 Theory and Implementation
- 3.1 K Means
- 3.2 K Medoids
- 4 Evaluation of Clustering
- 4.1 Elbow Method

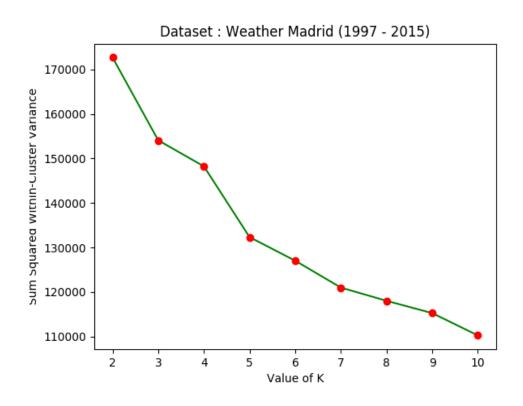


Figure 1: Determining Value of K through Elbow Method (K - Means)

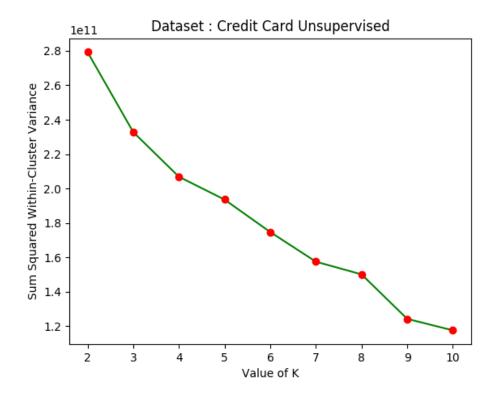


Figure 2: Determining Value of K through Elbow Method (K - Means)

4.2 Time Complexity Comparison

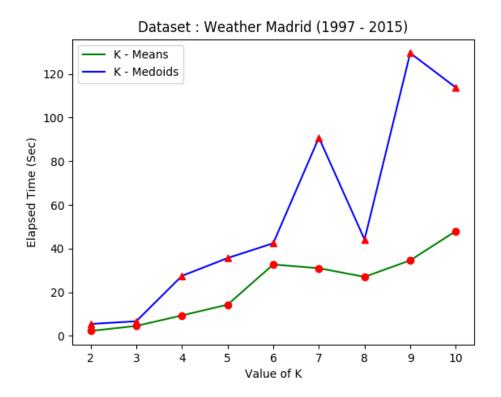


Figure 3: Comparison of Elapsed Time between K - Means and K - Medoids Algorithm

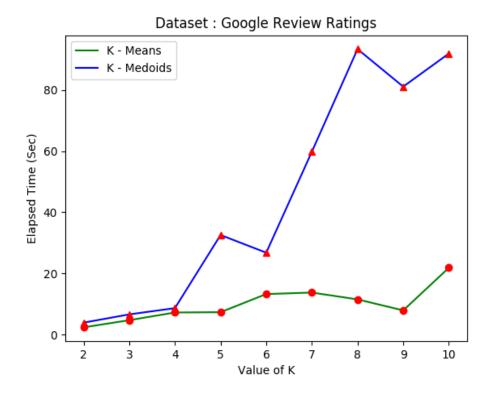


Figure 4: Comparison of Elapsed Time between K - Means and K - Medoids Algorithm

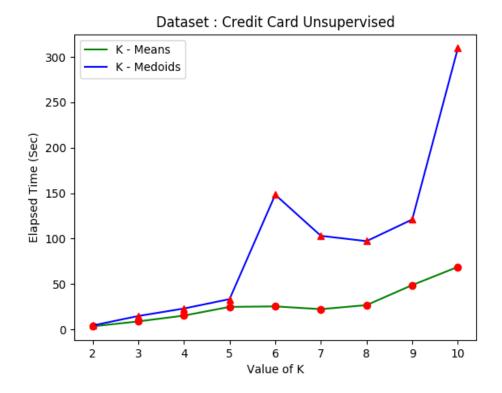


Figure 5: Comparison of Elapsed Time between K - Means and K - Medoids Algorithm

5 Conclusion