

CHAPTER 6

CONCLUSION

6.1 Conclusion

Based on the results of the test in Chapter 5, can be conclude that:

1. K-Means Algorithm can be used to classify weather, specifically rainfall data
2. The cluster quality test results (determining the optimal number of K) from the elbow method and the silhouette method have the same results, but there are times when both showing a different number of optimal cluster.
3. The differences in the use of the initial centroid point can affect the results of the elbow method and the silhouette coefficient method. although different but the results are similar to each other.
4. On Cilacap 1-30 April 2021 Silhouette Coefficient method can produce the amount of optimal cluster consistently with different centroids

6.2 Suggestion

Suggestion for the next research is to shortened the time amount when processing large amount of data, and the weather data can be integrated with the BMKG system directly