

ABSTRACT

The house is a human need as a place of shelter, shelter, and rest. As a necessity, all human beings have the right to find their own place to live with their families. Over time, the need for housing increases and affects the selling price of the house. Then conducted a study on house prices in the Bogor Regency area. In this study, we will focus on comparing the performance of two clustering methods, K-Means and Gaussian Mixture Model. Silhouette Score is used as a comparison of the two clustering methods used. The results of this study, obtained the Silhouette Score on the K-Means of 0.63516 and the Silhouette Score on the Gaussian Mixture Model of 0.62723. K-Means has a Silhouette value greater than the Gaussian Mixture Model which makes the cluster quality in K-Means better than the Gaussian Mixture Model in this study.

Keywords: house, Expectation-Maximization algorithm, Gaussian Mixture Models, price.