ABSTRACT

Ensemble Learning is a popular Machine Learning technique that combines multiple models to achieve better accuracy and generalization than individual models. We aim to investigate the use of Ensemble Learning to improve the accuracy of Cluster Analysis. Traditional cluster algorithms may have limitations when dealing with datasets that have multiple attributes, some of which may not be related. By applying Ensemble Learning techniques, we hope to improve the clustering accuracy and identify hidden patterns in the data.

The proposed project involves selecting a dataset that has 8 or more attributes, with related and non-related attributes, and has been shown to have low accuracy with traditional clustering algorithms. We will then apply Ensemble Learning methods dataset to improve the clustering accuracy. To validate our model, we will compare the results with those obtained from various datasets and traditional clustering algorithms.

The role of Ensemble Learning in cluster analysis has significant importance in data analysis. It can improve the accuracy of clustering algorithms and identify hidden patterns in the data that may not be visible with traditional methods. Therefore, the success of our project can have a significant impact on improving the accuracy of clustering analysis in real-world applications.

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