




19CS404-DATABASE MANAGEMENT SYSTEMS

Topic	Machine Learning- Clustering
Algorithm	<p>K-Means Clustering is an unsupervised learning algorithm that is used to solve the clustering problems in machine learning or data science. In this topic, we will learn what K-means clustering algorithm is and how the algorithm works.</p> <p>The k-means clustering algorithm mainly performs two tasks:</p> <ul style="list-style-type: none">• Determines the best value for K center points or centroids by an iterative process.• Assigns each data point to its closest k-center. Those data points which are near to the particular k-center, create a cluster.
Teaching Method	Role Play
Proof for the activity	<ul style="list-style-type: none">• Student's marks are taken as input. Seed point or centroid is taken as 50, 70, and 90 to form three clusters.• Marks close to seed points are formed as clusters. The cluster formation role play done by students is shown as photograph 
Feedback from the students about the activity and Knowledge gained	Students gained knowledge about clustering concept through real time example
Outcome of the activity	Learners understood the practical aspects and concepts of clustering. They can do real time projects