Seminar topics:

K-Means Algorithm

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Ki-Means Algorithm:

Ark-Means clustering is an unsuperited learning algorithm, which groups the unlabeled dataset into different cluster. Hear is dofined the number of Pre-dofine Clusters that need to be created in the process, as if k=2 there will be two clusters a for 19=3, three will be there clusters a for 19=3, three will be there clusters a so on.

It is an iterative algorithm that divides
the unlabeled dataset into to different
Chater in such way that each dataset
belongs only one group that has Similar
proposities.

A) It allows us to cluster the data into different groups and a Convenient way to dicover the Categories of group in the untabled dataset on it own without the head for any training.

AT It is a controid based algorithm, when each chuter is associated with a Controid. The main aim of this Algorithm is to minimize the sum of distances holden the data point & this corresponding Chuters.

the algorithm takes the unlabeled dashed as input divides the dataset into trinumly of clusters. It repeats the process until it doesn't fond the best clusters. The value of the should be predictermined in this algorithm.

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Algorithm mainly perform toos tousks.

A Determiner the best value for a center paint or centraids by an iterative process.

to Assigns, each data point to its closed to the center. Those data Points which are near to the particular A-center. Create a cluster. Hence each cluster has data points with some Commonalities lift is away from other clusters.