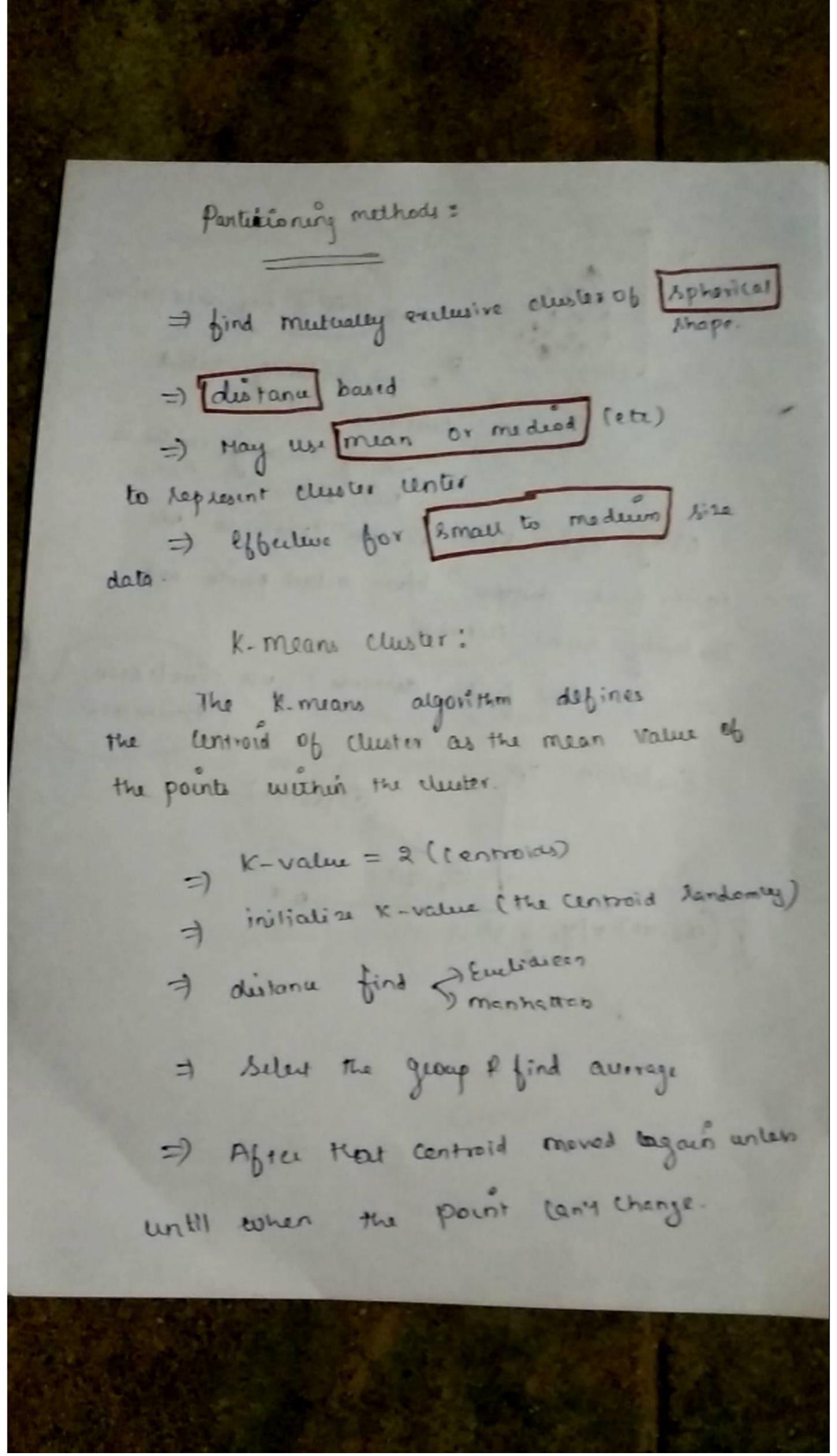
unsupervised Machine Learning -) class of machine bearing technique used to bind patterns in the data => The data given un supervised learning augorithm is not labelled. =) which means the only input variables (x) au guen with no corres ponding output vaiiables =) The most promuent methods of unsupervised learning are cluster analysis & plinupal Component analysis Clusturg: The data is divided into sevual groups with similar traits. Three Popular categories of dusteing algorithm. 2) Partitional clustering custer) Hierarchical clustoning I Density-based clustaing.

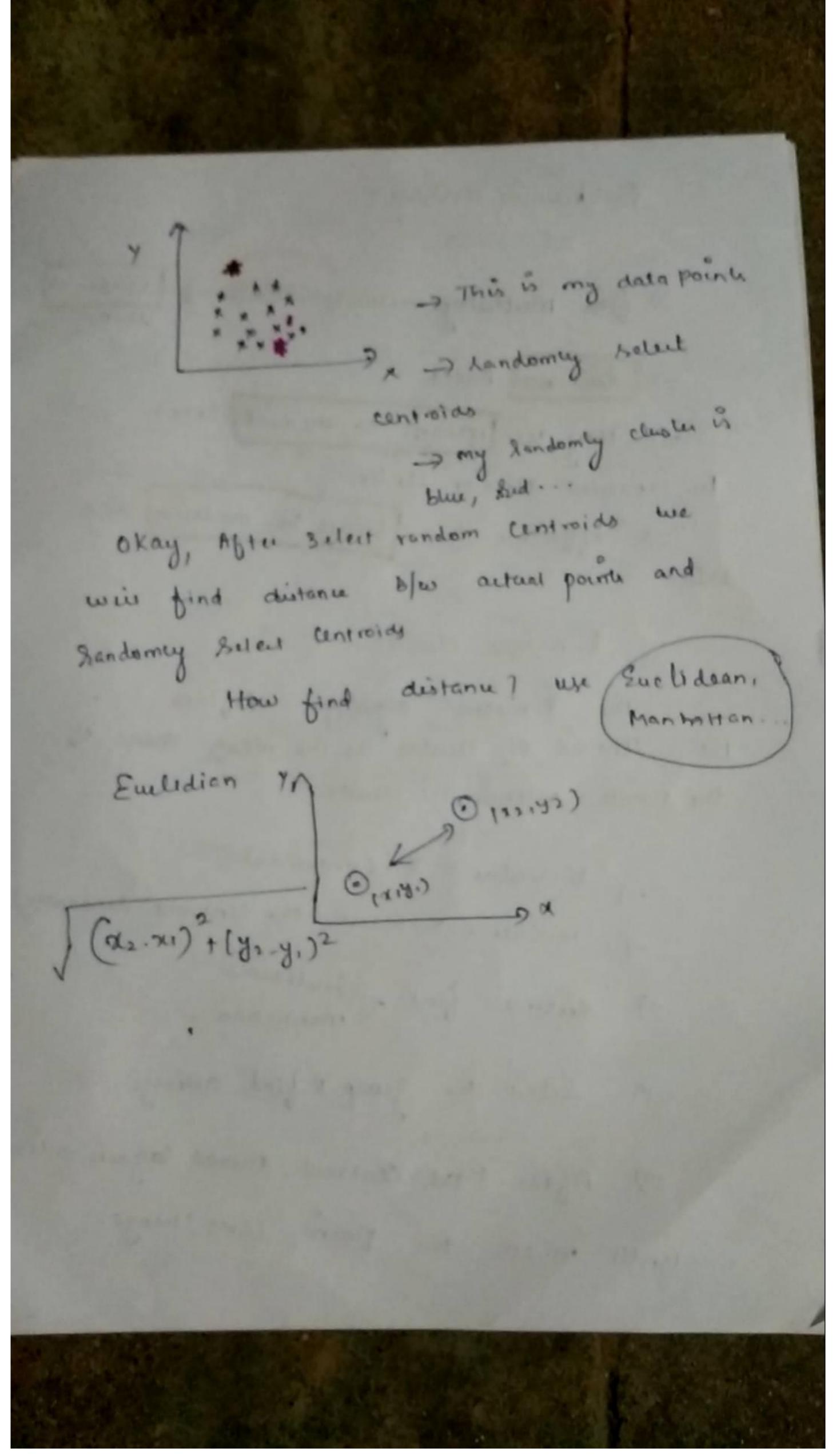
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why chustering? bind hudden telationship between the datapoints in the dataset Ex: Marketing: Characterstie and descours customer segment Biology: clavity among dis types of plants & arimals library: It is used in clusteury dif books on the basic of topic ? information Clustering method: four types of clustump methods 2) density based => Hierarchical based =) partioning =) gud based.

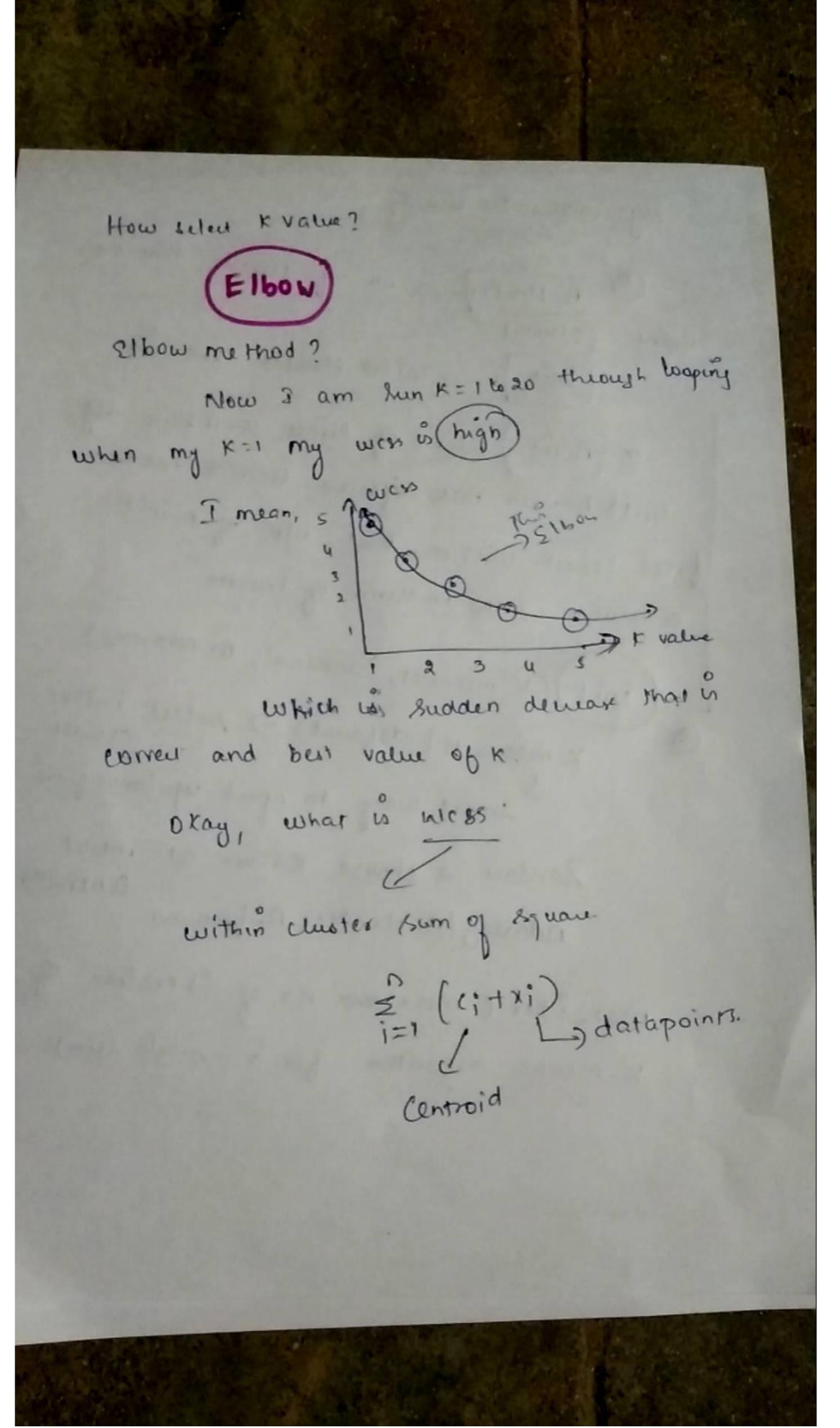
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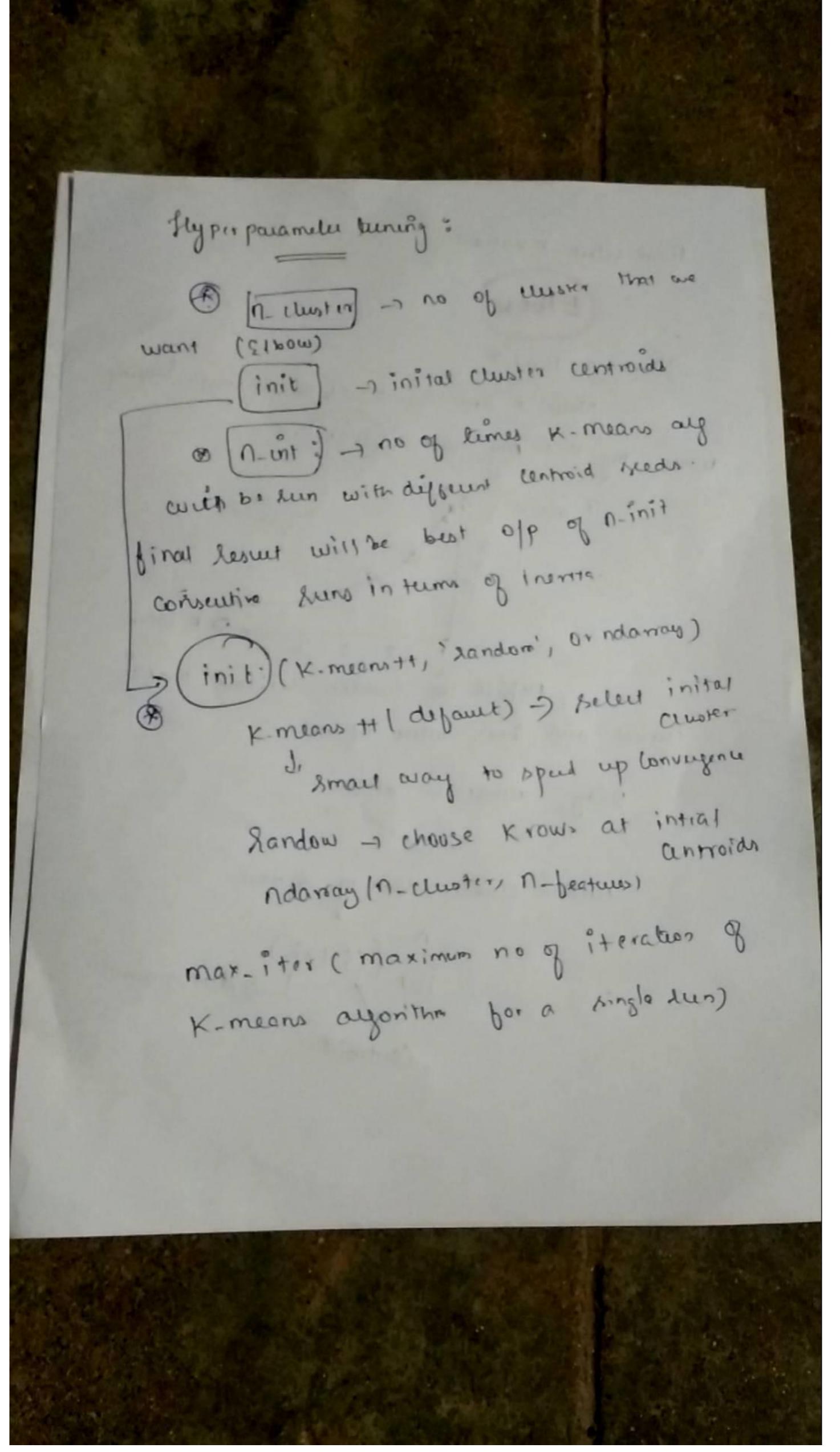
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