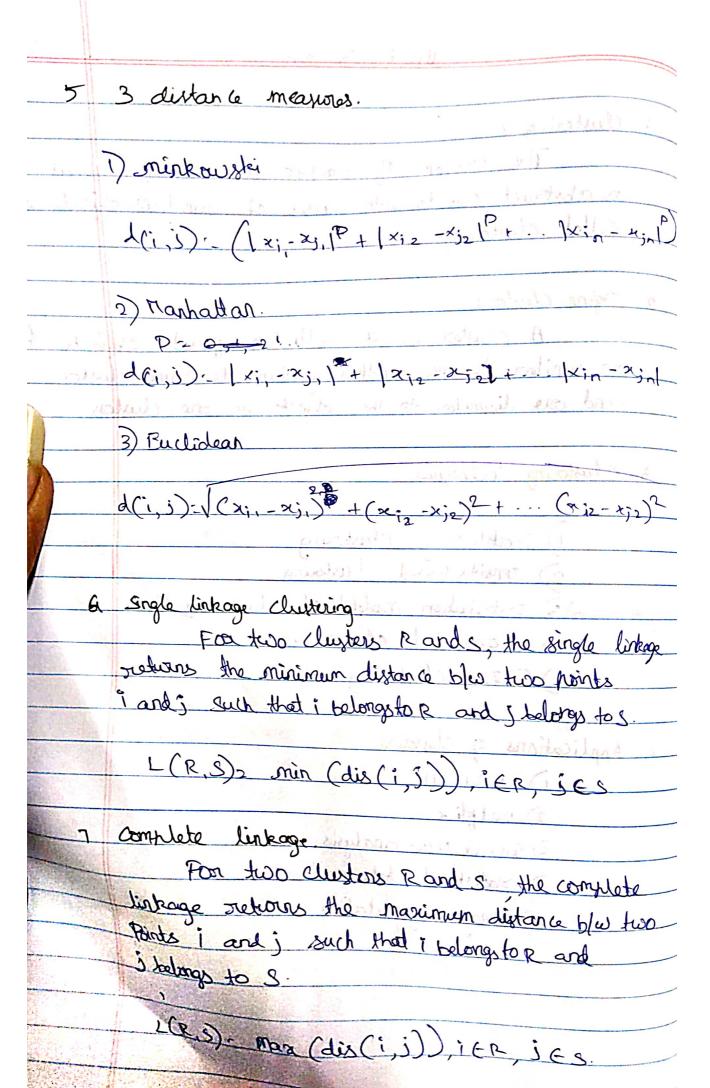
1 Clustering ? The No cess of growing a set of Physical or abstract objects into classes of similiar objects is Called Churtoring. 2 Define Cluston 1 A cluster is a collection of data objects that are similar to one another within the same cluster and one disimilar to the objects in one clustons. 3 clustoring techniques 1) Postitioning clustering 2) Jensity Based Clustowing 3) Distribution model based clustoring in Hioronchial clustoring 5) Fuzzy clustoring. of the Designation its 4 Applications of chyloring.) amazon 2) Metflier 3) Social N/W analysis. Shtistical data analysis 5) smage segmentation.

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8 Average linkage clustering For two clusters R and s, joint for the distance blue any data point i in R and arey datapoint) in s and then the withmetic man of these distances one Calculated. Average linkage returns the value of oxidemetic mean. L(R,S)= 1 PRAMS TO (1)3) np -> no q dotanints in R no of datapoints messent messent a Dendogram = 5 0 1 31/2 months of the We develop the hioronchy of clusters in the form of true and tree shaped structure is called s 1-7 (5) with rest more derdogsam. 10 Formulas q Decision Trace granction. Info(D) = - & P; log, P; Gain (D) - Info(D) - Grain Dop (D). 11 KNN algorithm 1) KNN Stands K- nearest neighbors 2) 24 yours all the auxilate data and classifies a now data point & based on the similarity.

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5ANN 1) It Stands for Ashificial Newal Network. 2) It is a Computational n/w based on biological newal n/w that construct the Structure of human brain. 6 3 types of yearen system. i) Sympathetic nowous system.

5) The Poola sympathetic nowous system.

8) The entowic nowous system.