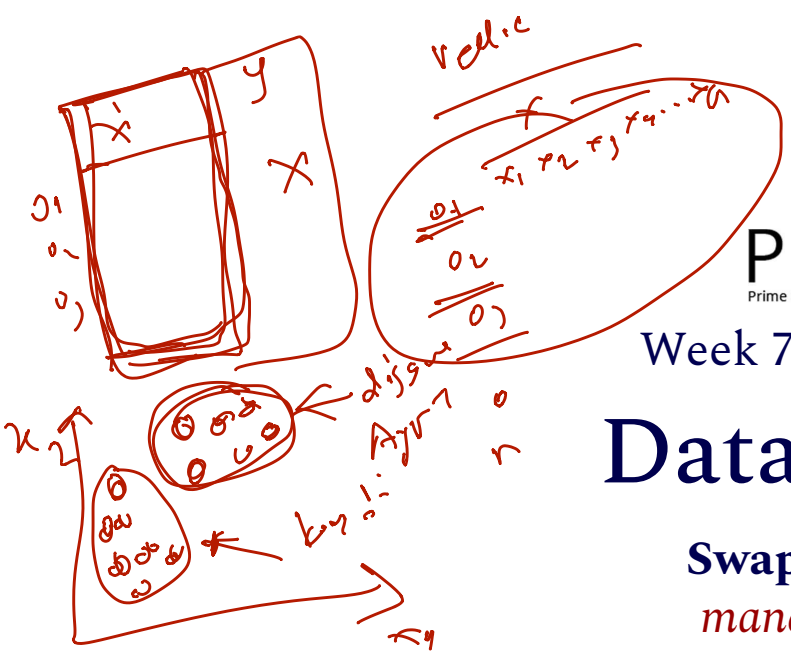

PMRF
Prime Minister's Research Fellowship

Week 7 - Live Session

Data Mining

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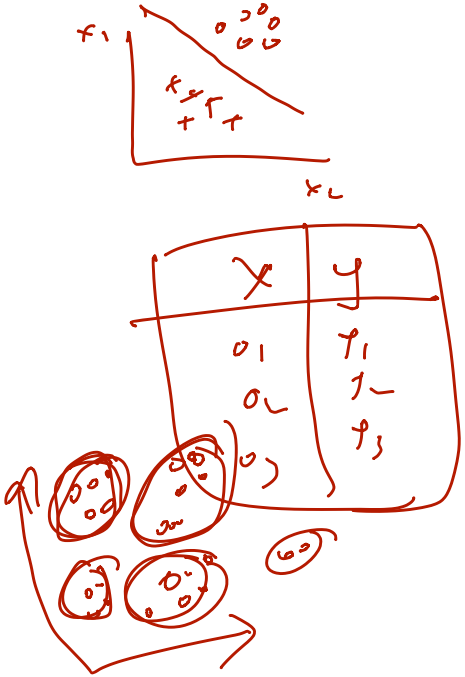
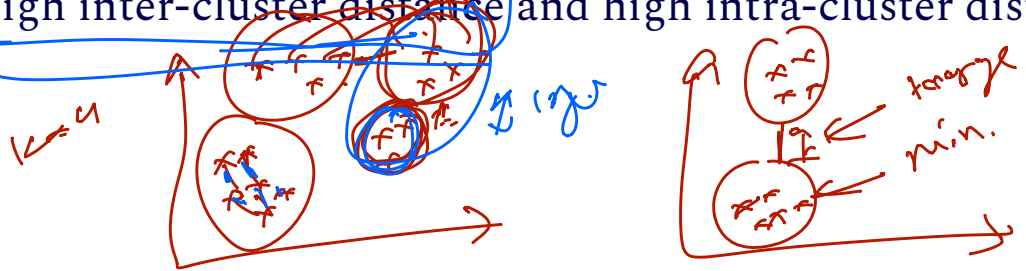


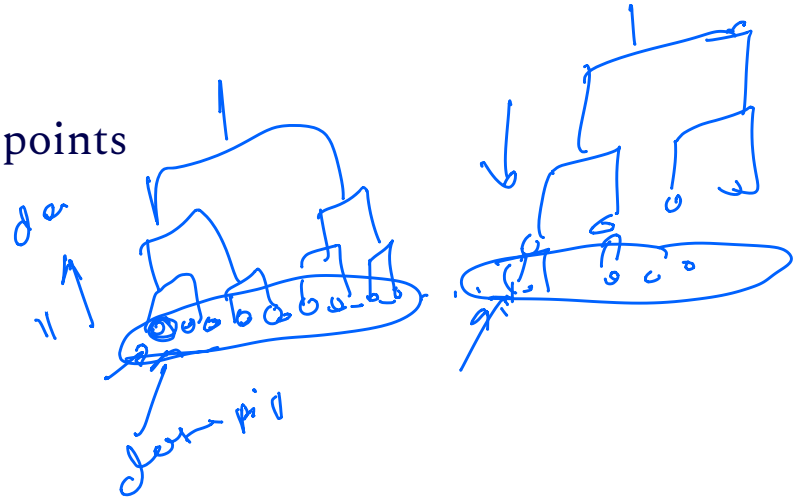
Q1. A good clustering is one with_____?

a) Low inter-cluster distance and low intra-cluster distance
b) Low inter-cluster distance and high intra-cluster distance
c) High inter-cluster distance and low intra-cluster distance
d) High inter-cluster distance and high intra-cluster distance



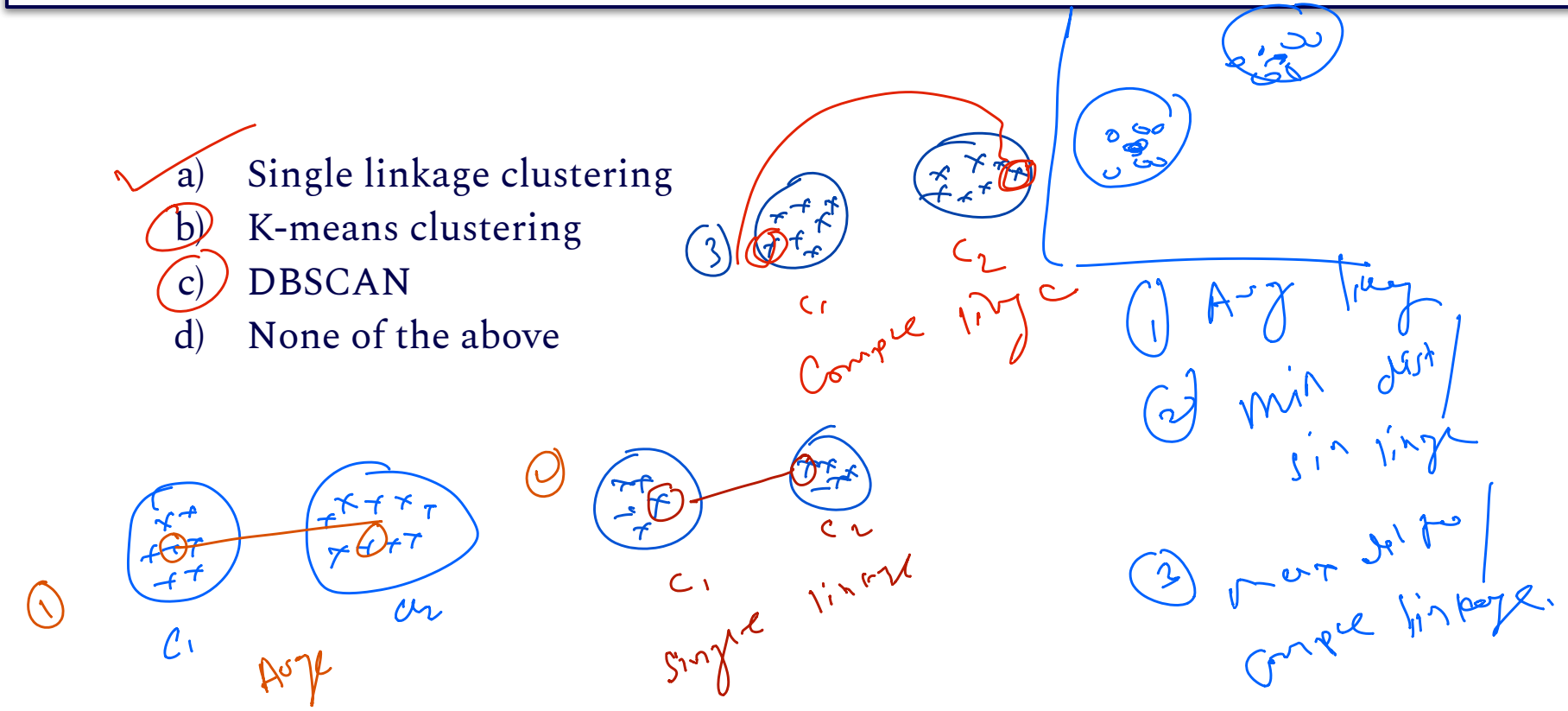
Q2. The leaves of a dendrogram in hierarchical clustering represent?

a) Individual data points
b) Clusters of multiple data points
c) Distances between data points
d) Cluster membership value of the data points



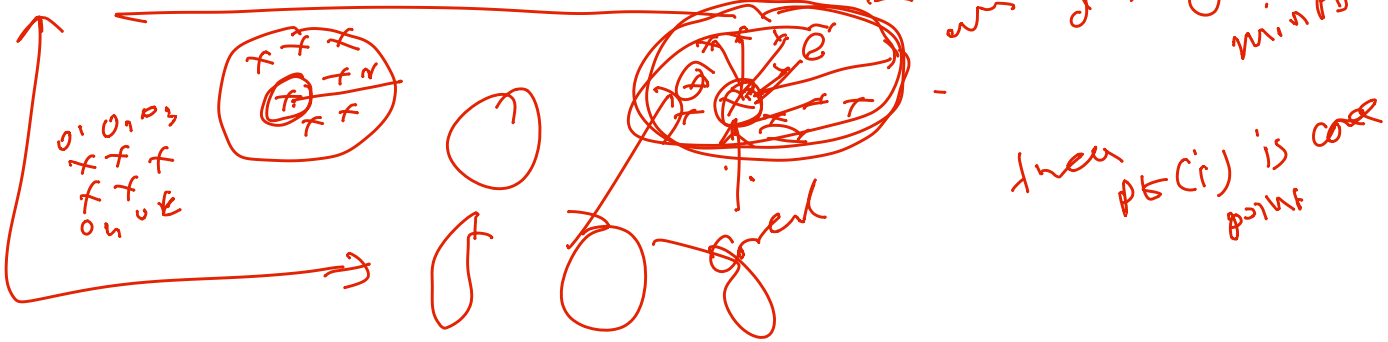
Q3. Which of the following is a hierarchical clustering algorithm?

a) Single linkage clustering
b) K-means clustering
c) DBSCAN
d) None of the above



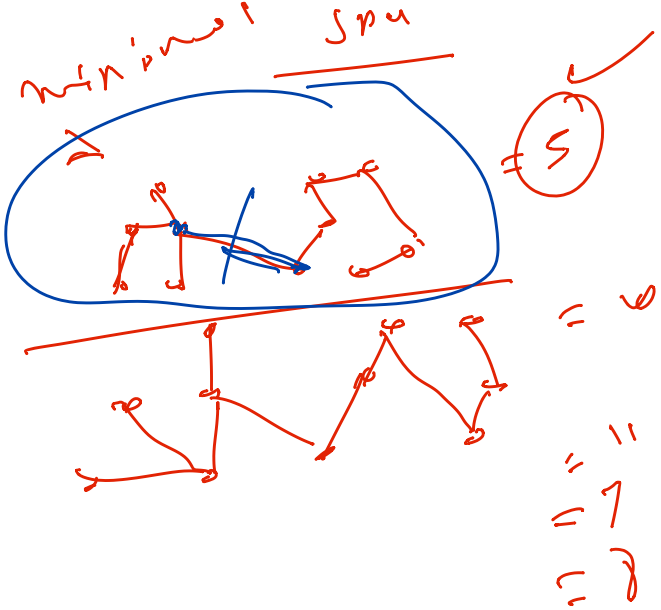
Q4. Which of the following is not true about the DBSCAN algorithm?

a) It is a density based clustering algorithm
b) It requires two parameters MinPts and epsilon
c) The number of clusters need to be specified in advance
d) It can produce non-convex shaped clusters



Q5. Which of the following clustering algorithm uses a minimal spanning tree concept?

a) Complete linkage clustering
b) Single linkage clustering
c) Average linkage clustering
d) DBSCA

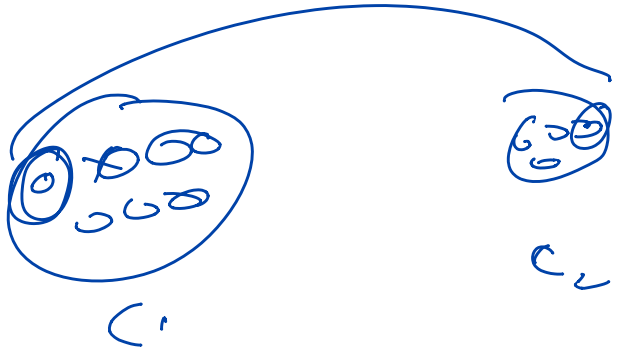


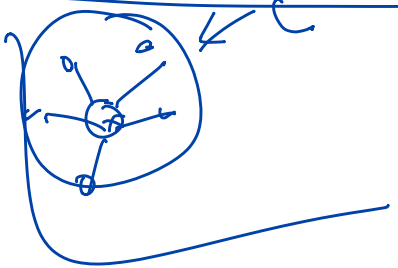
Q6. Distance between two clusters in single linkage clustering is defined as:

a) Distance between the closest pair of points between the clusters
b) Distance between the furthest pair of points between the clusters
c) Distance between the most centrally located pair of points in the clusters
d) None of the above

Q7. Distance between two clusters in complete linkage clustering is defined as:

a) Distance between the closest pair of points between the clusters
b) Distance between the furthest pair of points between the clusters
c) Distance between the most centrally located pair of points in the clusters
d) None of the above



Q9. Which of the following is not true about K-means clustering algorithm?

a) It is a partitional clustering algorithm
b) The final cluster obtained depends on the choice of initial cluster centres
c) Number of clusters need to be specified in advance
d) It can generate non-convex cluster shapes