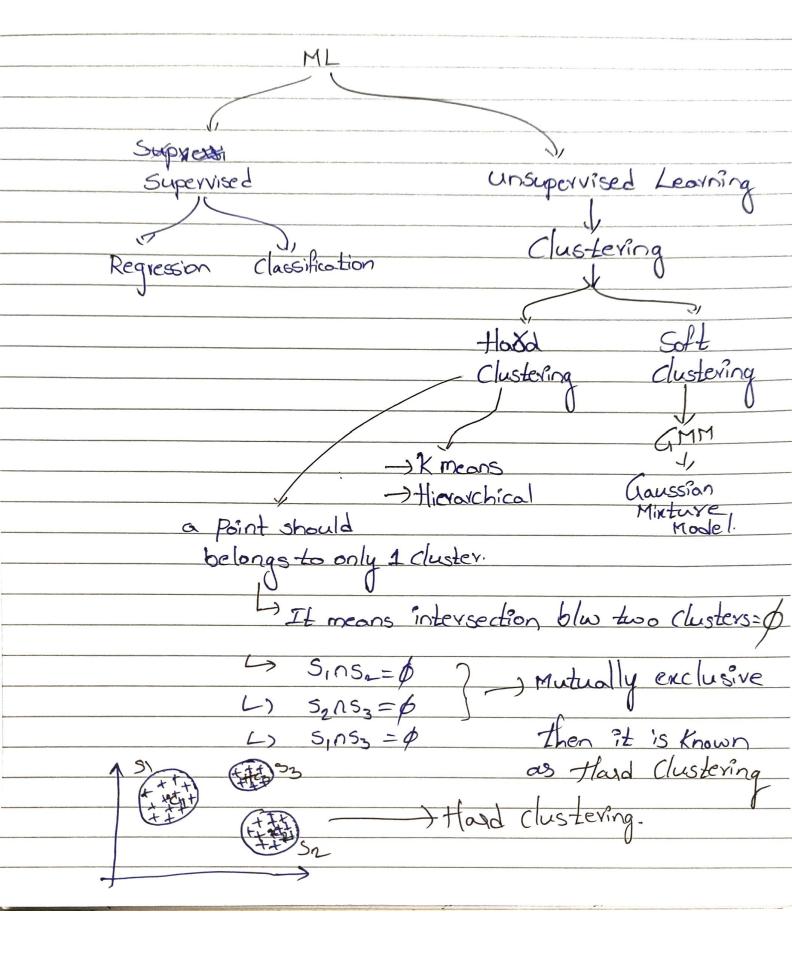
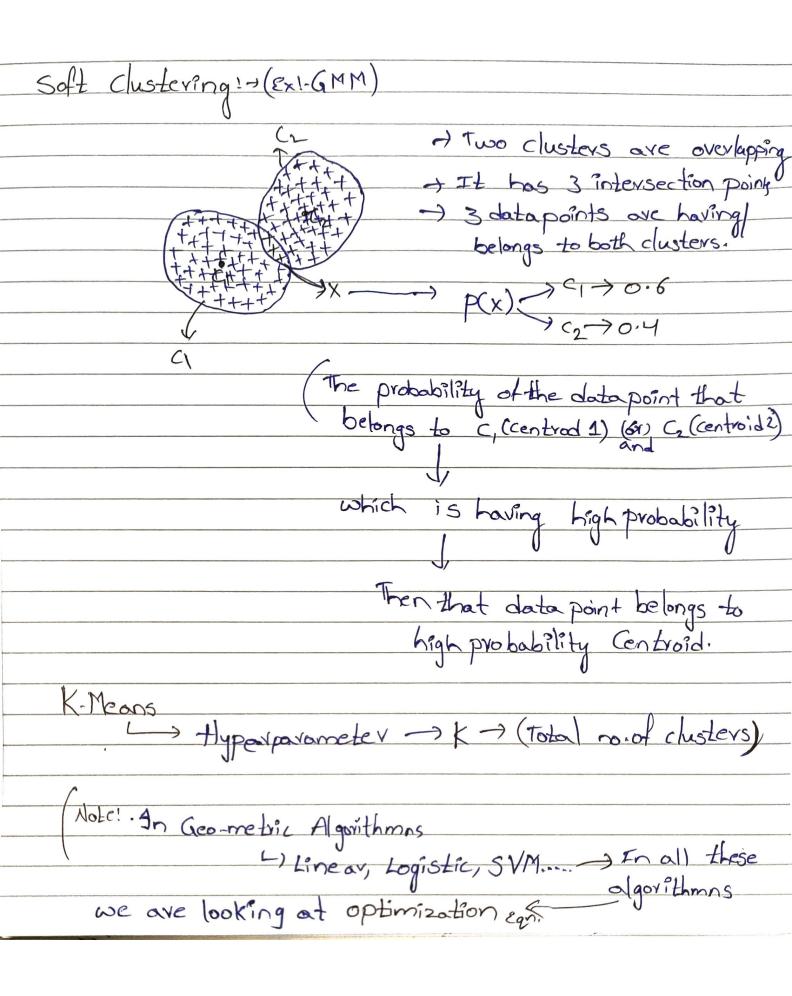
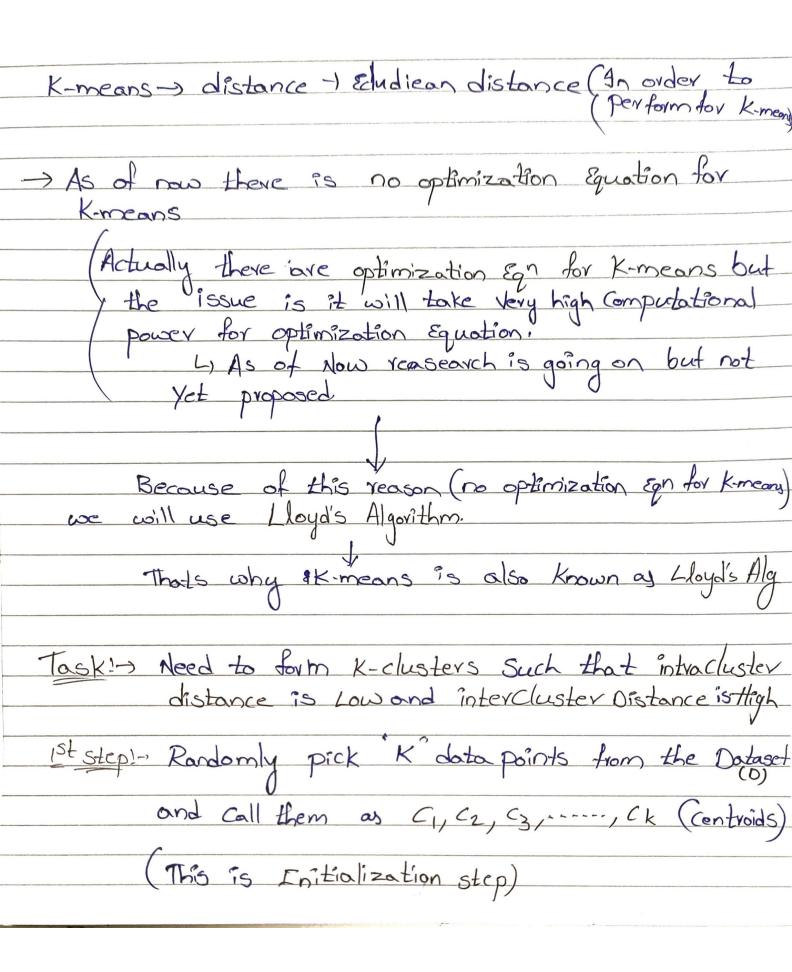


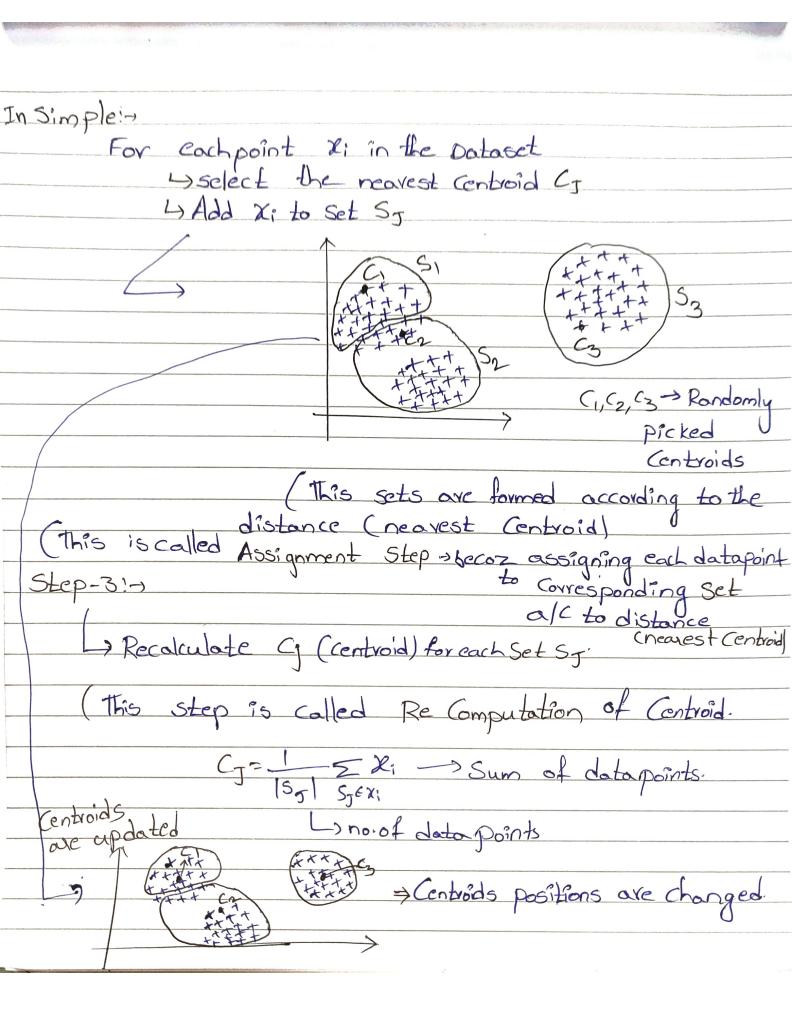
K-Means L) K- Centroids , set1, set2, set K L) K- Set of points (S, S2, ... Sx) L) SIUSSZUSZUSZUSZUSZUSK=D) Dataset L) Mutually exclusive sets (s, s2, ... sx) 1) Sins2 = p 52153= Ø 5,75z= Ø Q) How to find Centraid. And Ci= Swn of Datapoints = x1+x2+x3+....+ xn
of Datapoints = n we are using Mean so, it will be impacted







> Intialization Step
Choosen. (This avenot the real centroids, So, we need to update the Centroid)
Step: 1:0 For each point X; in the Dataset +> Select the nearest the Centroid C; L) Then add *X; to Set Sq.)
How to select is calculate distance from Xq to XC, and Xq to C2 and Xq to C3 L) Get the Centroid which is having minimum distance 4 to the above of mode Xx E Ca (Control 3)
So, it belongs to Set 3 (Sz)
The this way we will calculate distance from every point in the dataset to centroids and we will stove it into the sets (it belongs towhich set then homeons stoving it in hespective set



Step-4:-)

Repeat Step-2 & step-3 cuntil Convergence.

Centroids Won't Change.

(re sets won'te change) and this clusters are Mutually exclusive) 5, US2 US3 = 0 $S_1 \cap S_2 = \emptyset$ $S_2 \cap S_3 = \emptyset$ S11183= \$