

Can they work in hon Endidean Space? [I POINT] Ta Both the algorithms can only work in Euclidean space, however K they can work in non Euclidean Space, where we can use clustwoids wistead of centroids and measure nearners of with intercluster distance or by picking a notion of whesion-3 rate pice new controld based on ELPOINT] load a sample of entire data into memory and Take k -> the kneans to find the points close To enough to a centroid called the DS set.
There points can be trummarized and discarded. -> Similarly, group points that are close together but not close to any existing centerid. These points too can be summarized and discarded. (CS set) 7 -> The is Plated points can be assigned to Rs set cs which drawn the start and was the day? 3 --> Summarize like the following: - [1] POINT Ja Sum, sum of the respective it components in the ith dimension

sumso, sum of equares of the ith component in the ith dimension.

-> load 2:- [I POINT]

3

- . Add new points that are doset to DS or CS whichever is the doset.
- · Update the DS or Cs statisties accordingly
- consider muging comprened sets in the cs.
- In last round, meege all & compressed sels in the Cs and all Ps points into the nearest DS dusten.
- We can use Mahalanobies distance to measure the nearners

Limitations [] point]

- -> Assumes the data is Normally distributed
- -> axis are fixed ellipses at an angle are not ok.