Cs quiz 1

3, September 2021

1   A good choice of K in K-Means algorithm

In K-means algorithm K represents the no.of centroids present in the whole clusters, a good choice of K can be given by, when the average distribution of the points around the centroid is nearly equal (i.e. all the clusters are having nearly same no.of points). In otherwords the variance of the clusters should be nearly the same (this method is more accurate when we have uniform distribution).

So we can respectively increase the K value w.r.t the variance or mean square error until the error becomes stable.