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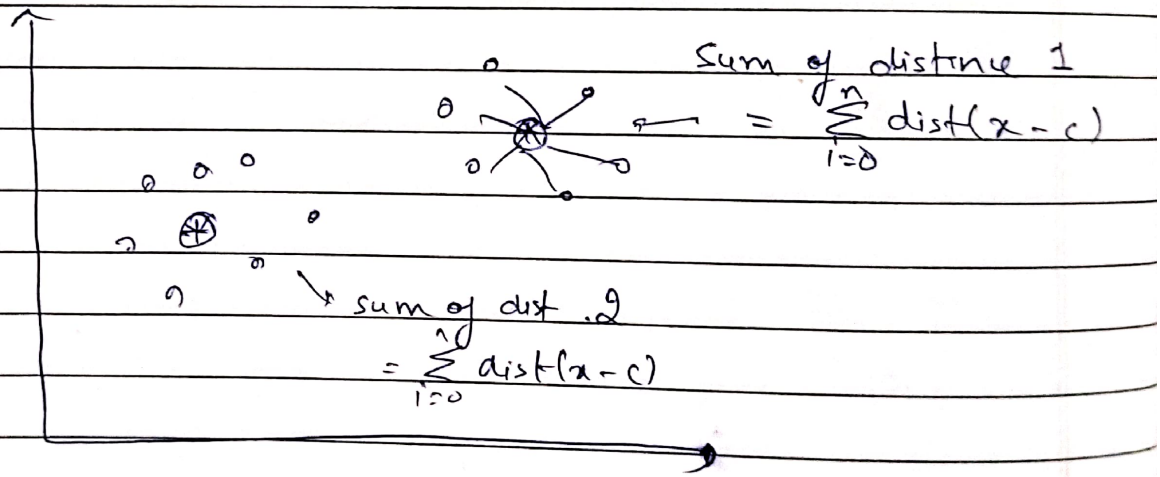
→ So after clustering we know the cluster ids and the cluster centroids.
→ We calculate mean squared distance for different k.
→ Let say k (cluster) = 2, we calculate distance from centroid to each point for each clu.
→ Then let k = 3, we do the same.
→ We check for what value of k, the distance is least (mean squared distance).
→ There is a elbow method. Where you plot distance vs k and choose the k at the elbow

↑
I swear I didn't look up internet.
I was reading about clustering yesterday and found this.



Sum of dist = sum of dist 1 + 2
optical k = least sum of dist for some k.