unsupervised Learning - K-means implementation Project discussion

> Unsupervised Learning dataset will contain only features. There exists no label.

Goal of Unsupervised Learning

I find a biscorer Hidden pattern . And L Diseaser Genetic behaviour

· Optimize & Saboat/Select Features from dataset.

- ML engineer

K-means algo.

- k-means is a dustering algorithm.

- Your dataset will be categorized as clusters on the basis of your assumption.

Basis of assumption for n_dusters:

1) Visual EDA (Exploration DA)
-scatter plot - pair plot

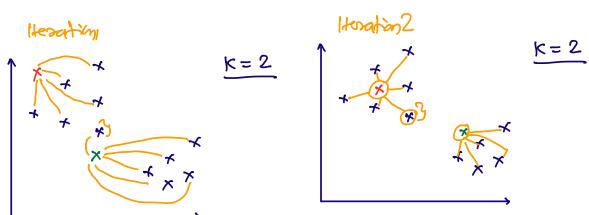
@ Elbow method. (check a senge of naturales and identify when the error was less?

findings from pair plot for dataset Mall Customers.cov.

- 1) Wishomer_Id VIS Spending Score (n_dustex: 5)
- @ Annual Income VIS Spending Score (n_clusters: 5)
- 3 Age v/s Spending Sack (n_dusters: 2)

K-means Algo:

- 1) Assume k- value. (n_clusters = k)
- @ On the basis of k value randomly assign 'k' number of cluster centers.
- (Distance formula)



Horation? k=2And of iteration

finalize this as the cluster k

- Blestoom step3 till all points belong to correct duster centers.
- 3 Finalize the cluster.