KNN, K-MEANS, HYPERPARAMETER TUNING

K-neamest weighbors

- Supervised algorithm

Label

Thousand Test

- Euclidean Distance

Tuesday, July 4, 2023 9:48 PN

 $-D = \sqrt{2(\chi_i - \chi_i)^2}$

Tuesday, July 4, 2023 9:49 PM

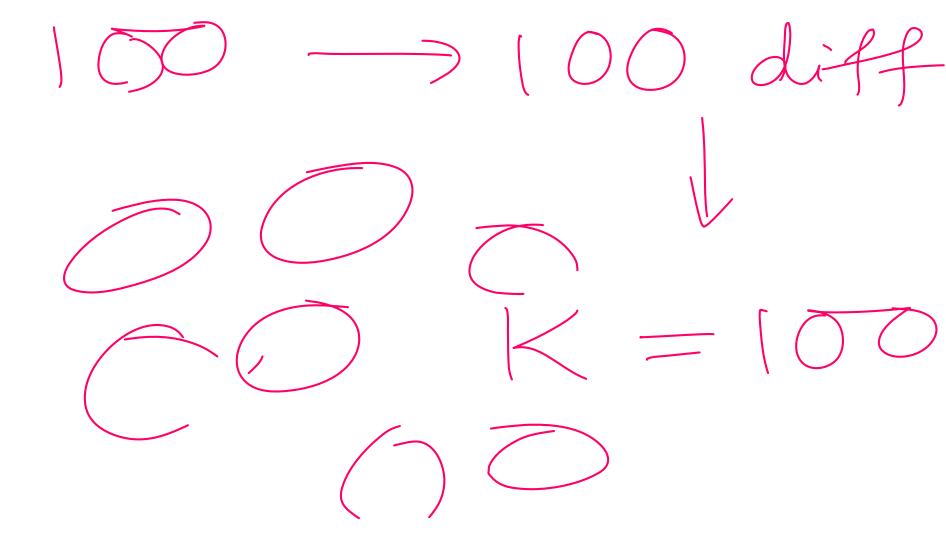
3 Steps Dalc. Eucl. Dist. 2) Find nearest neigh 3 Maha Priedictions

Tuesday, July 4, 2023 10:12

leans/ solusteria

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Christer

(XXX) (1st Property

(XXX) (1)

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- Chy to men - Docement - Image Segmentatia - Recommenda

Tuesday, July 4, 2023 10:19 Pf

Juntia (x 5 x - Evaluates finst Propenty Seem of de stances points



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Dunn Index



DI = minlinnendunter dis
max (,,)



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Silhouette Score & plet

- K Means -, sol M

- evaluation

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K-Means Steps (T) Choose #K [no of Cluster 2 k nandom points a ~ Cl

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Acción points to respective les descentes de la contra del la contra de la contra de la contra del la contra del la contra de la contra del la cont 9 C1, C2 Changed. Recompute. 5) Step 3,4. -> Repeat

5) Step 3,4.—) Repeat

until (1, c2) constant

de in

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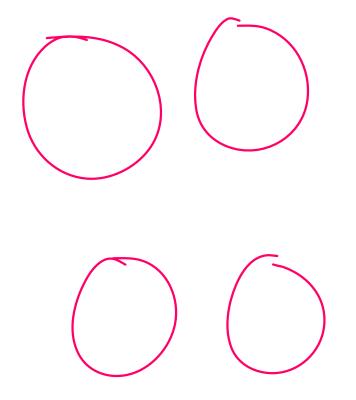
K-Means++ D First clusten is chase randonly. Just one. D(x)—) all data paint 3) New cluster contre 7 P(x) & D(x)

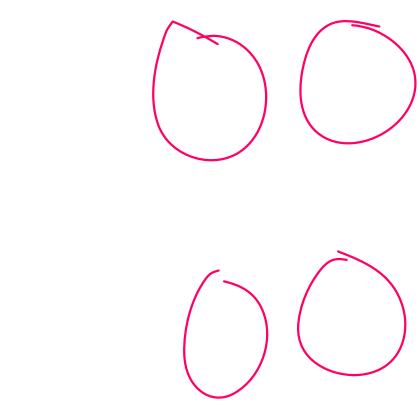
Tuesday, July 4, 2023 10:41 PM

1 Repeat 2,3 until le cluster S, XX XX

(Repeat)

Inama & Debt





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