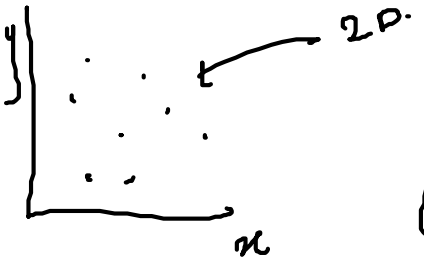
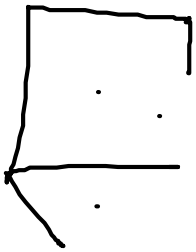
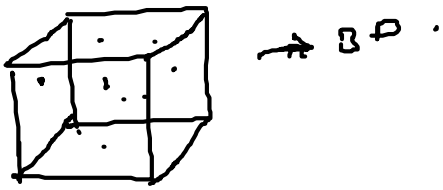
K-Means Clustering

13 April 2022 08:57



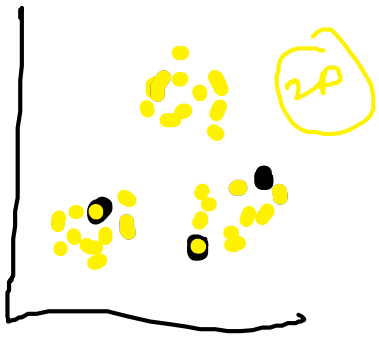


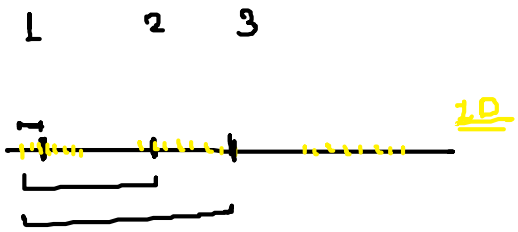


k-means :- k = no- of cluster

Centroid :

Step 1 :- select a k value :- 3



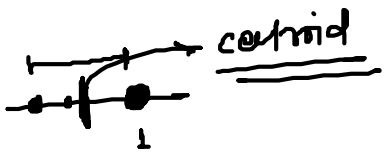


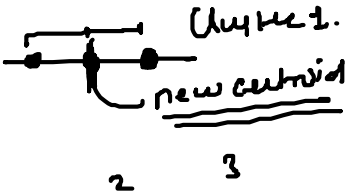
2 Randomly select 3 datapoints

3 Measure the distance between the 1st dp & clusters

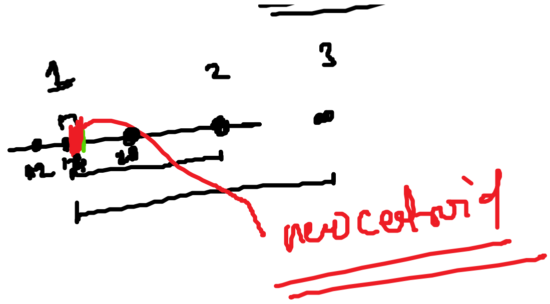
4 Assign pt 1 to nearest cluster (1)

5 Calculate the mean value of cluster 1 including new pt.

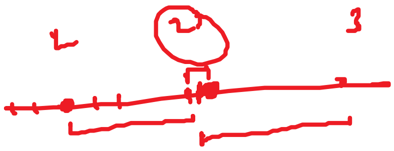




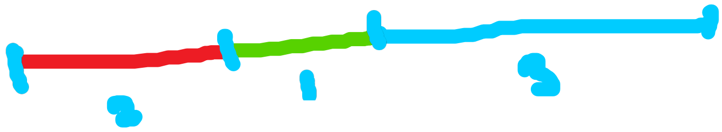
2nd pt.



point B



red green blue
1 2 3



iteration 2..

lowest sum of variation

↓

Best cluster.

iteration :- 3 random centroids = 3

3rd

20 17th lowest sum of variation

How to decide value of k

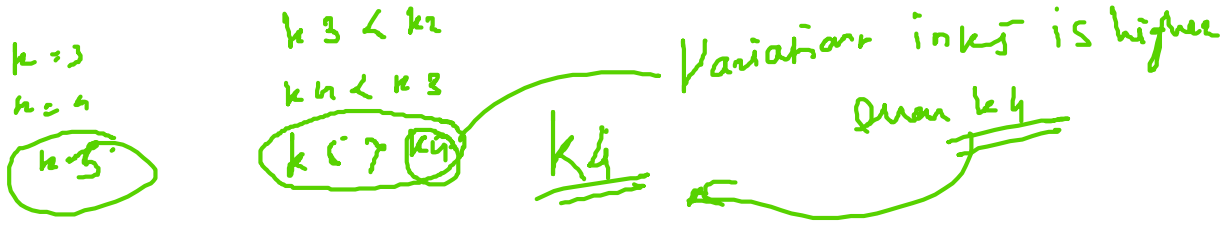
hi

k=1 ⟶

k=2 k2 < k=1

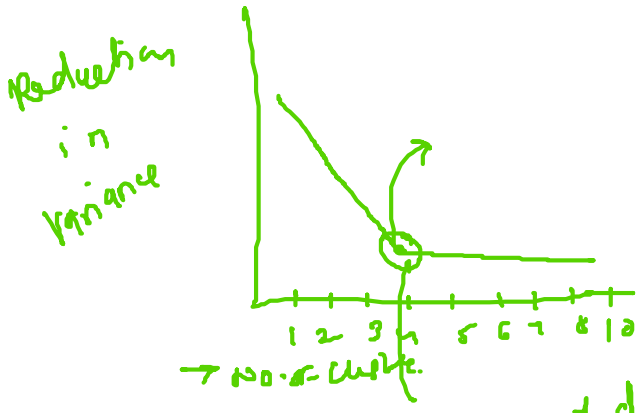
k=3 k3 < k2 —— Variation in k3 is higher

k4 < k3



No of pt = no. of cluster k

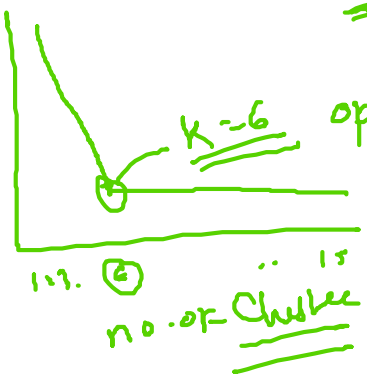
$n = k$ → variation



optimum no. of cluster

WCSS

within cluster sum of squares

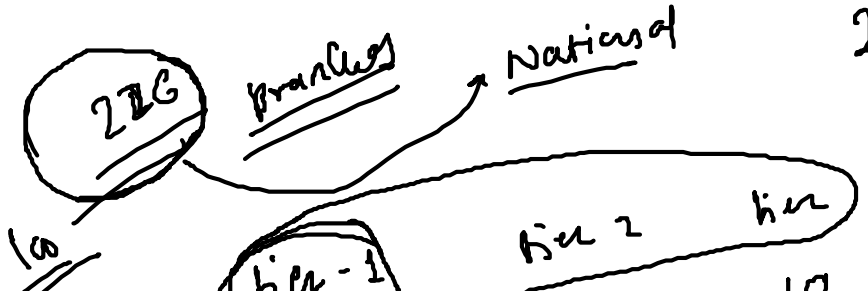


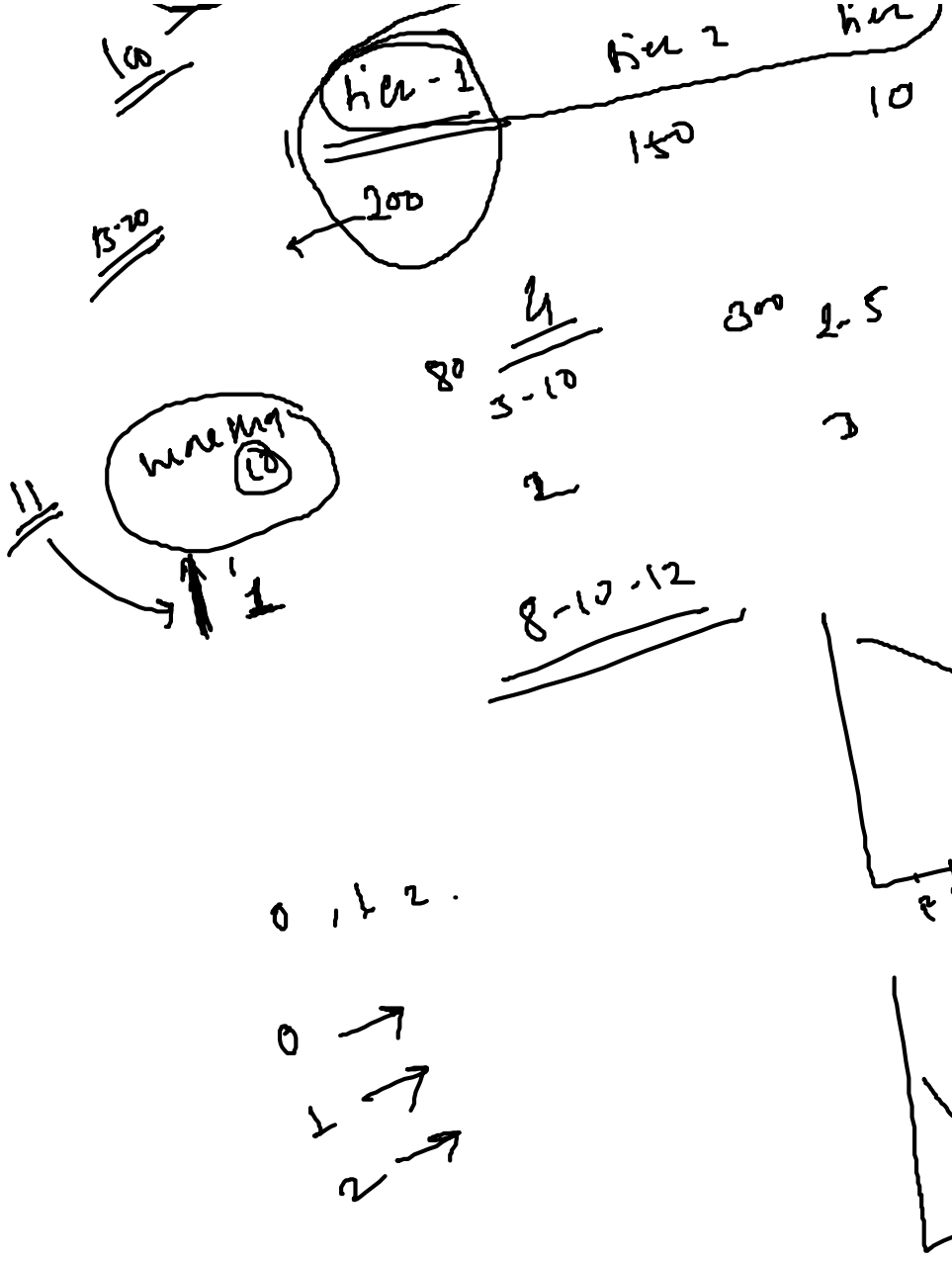
15

optimal no. of clust

15, 20

hi





New Section 1 Page 4

Data Gathering

Current CTC = Cost to company

5-8 LPA

Monthly = 48330 → In hand

2000 } deductions
2000 } 250 professional fees
3000

In hand 48330 - 3000 = 45330 k

Variables — Find variable.

HRA —
BASIC —
TA —
PA
SA
PB → variable
JB

Incase give 10 FTA and 1 Lakh JB

hi

Expected salary = CTC value × range

%	CE 1	7
5 LPA	30 . 6.5	6 to 8 LPA
	40 7	6 7

5.5 - 6.6

5 lpa 30% } 20% 5 L. 5.5
40% }

20 %.

10 %.

5.5 lpa = 11 lpa

what is the bae

what are you offering

how much can we negotiate

HCL LTI DS = 12 lpa

10 10 6 8 or 12 / 10 or 4 3. 8 to 10

hi

3 → 5.5 30 to 40

7.5 T

7.90 + 7.75 7.5

7 to 8 28 43 7.5 ?

need to accept. 2 days

glassdoor

Hi ...,

I ... .

15 → 8 19

Do you have any questions?

↓ 1

hi