

Instance X X Assigned with

7 8 (2

2 2 4 4

3 6 9 (2

4 1 9 (1)

Carried 1 1.5 4.0

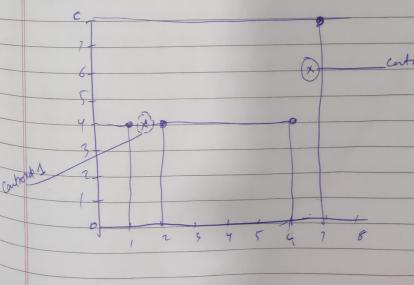
Carried 2 6.5 6

(ashord 1 coordinates = Avg coordinates (instances 2, 4)
(ashord 2 coordinates = Avg coordinates (instantes 1,3)

Contord $1 \times = \frac{2+1}{2} = \frac{3}{2} = \frac{1.5}{2}$ Contord $1 \times = \frac{4+4}{2} = \frac{8}{2} = \frac{4.5}{2}$

control 2x = 7+6 - 13-6.5

certain 2 x = 8+4 - 12 = 2

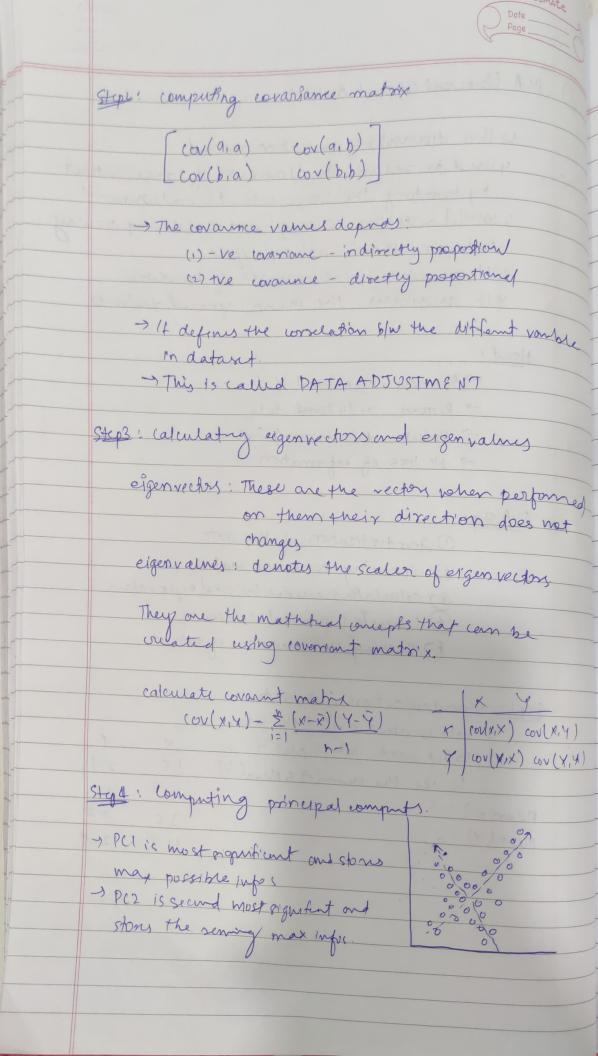


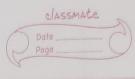
Classmate 30.25 + Hutran 3: Check for the new chapter is new or same and cale, the artified distril CI(1.5,4.0) (2(6.5,6) Instruce X Y CI del C2 ded old New 6.80 2.06 CZ CZ NO 492 4 4 7 No 0. T 4 y.5 1.5 CZ CZ No 6 y 0.5 5.85 (1 (1 No Since the is no chage.

Monce sol 1 is nonverged.



(2)	PCA (Principal compount grayers)
	is It is dimeronlating reduction method
	y wand to reduce the dimorron of longe dataset
	by formy the large datand to anlive datunt
	a whild reductions it may lead in reducing accuracy
	but using PCA it will had
	but using pea it will not offer of the date
	It maximus the variance of the data
	9/4 minimus the mean squared distance
	Need 1
	20
	> Removes redydant data
	-> Makes date account factor
	-> Makes data processing faster
	-> No loss of information
	PLA Steps:
	O stempardization of the data
	@ computing covariace matrix
	3 calculating eigenvectors and eigenvalus
	(2) computing principal compounts
	Reducing the dimensions of darks set
	James Villa of Charles and
	Step1: Standardination of the data
	Wit is about scaling the data
· Y	Get some data of plot it. X Y
	5) Take the mean (x) & Mean (V) 1.5 2.4
	$Mean(\kappa) = 3$
	mem(Y) = 6:5 3.0 7.2
	4.5 2.8
	The terms of the t





in descending ones Steps: Rearry the during: I Rearrage the original data I the original data will be reduced I the eigen vectors with highest eigen value will be the per PCA from first principu 1) Take Instances with (x and y) Instance 0.1. 0.6 0.2 0.7 0.3 0.8 0.4 0.9 5 0.5 0.1 03 0.62 Mem B) Remove the scale factors. 0.6-0.62 = -0.02 0-1-0.3 = 60.2 0.7-0.62 = 00008 0.2-0.3 =-0.1 0.3-0.3=0 0.6-0.62 = 0.18 0.4-0.3=0.1 0.9-0.62 = 0.28 0.1-0.62 = -0.52 0.5-0.3=0.2

3 (ov(x,y) = = (xi-x)(Yi-Y) $(ov(x_1 \times) = (-o.2)^2 + (-o.1)^2 + (o.2)^2 + (o.2)^2 / 5 - 1 =$ (OV (X, Y) = (-0-24-0.02)2+(-0.140.08)2+----/5-1= av(Y,X) = (-0.47000) av(Y,X) = (-0.47000) av(Y,X) = (-0.47000) av(Y,X) = (-0.47000) av(Y,X) = (-0.47000)con(x,4) wux,x) covanne Mahx, C= COV(Y, Y cov(Yx) Calulating the eight vectors and voring Eign vans = [Eign verby = ____ The eign vectors with hight eigen vame will be the put.

