PAGE NO.
EATE:
Kmeans
mean value of the object is duste
mean value of the object & dust the
ilp K - no. of cluster
A - A data set containing Nobjects
The collection of the contraction of the collection of the collect
melhods oleps:
Steps Agbitarily (grandoonly) choose n
object from & as initial custes
Center
Steps: repeal A) Re-assign can obj to the
cluster to which the obj is most
similar based on the mean value of
the value & the custer.
by updale The cluster mean
Carpeat until no charge y
The state of the s
the means controled Based Jelhniquis
i -d e c p
Dala 50+ 3 2,4,5,6,8,12,10,3
with the contract of the contr
$m_1 = 2$ $m_2 = 4$ $m_3 = 5$
$\frac{101-2}{102-4} \frac{102-4}{m_3-5}$
1/ 1/ 1/ 7
1/6=5=5:
$\frac{1}{1} = \frac{2}{1} = \frac{2}$

PAGE 140. 10 1300 DATE; Ros Object 12" dest Cly Ci) & Cly Ci) 2 Cly Ci aust (P(US) = (2-2)27=1014 C2,43= C2-432 = 4 (e,5) = (e-5)2 = 9 For object 11411 (1) . dest (412) = (4-23 (4,4) = (4,4) = 0 × (2,5) = (4-5) = 1 for object = "5" d(5/2) = (5-232 d (514) = (5-4) = 1 acs (5)=0 # for object "16" a(612) = (6252 = 16 d(814) = (6-4)2 = 4 a C615) = (6-5)2 = 1 Jan 2 Black Day Por object "8" d(8,2) = (8-2)2 = 36 ac 8142 = 18742 =18 a(8,5)= (8-5)2=9 \* for object 11/21/ (12-2,12 - 100 ac 1212) = EGG 2 d (12,4) = (12-5)2- 649 3 ac 1215

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	Por obj "10"
	d (10,2) 1265
	d(10,4) = 36
	d (10,5) (-25 x
The state of the s	G = 11805 11011
	$Gob gert 113'$ $d(3,2) = (3-2)^2 = 1$
- Company	1 377 170 MARIE MA
	$d(314) = (3-4)^{2} = (-1)^{2} = 1$ $d(315) - 13-5)^{2} = 4$
***	KI T = 2 2 2 1 - 3)
	K2 29 (1)
-	K3 =516,8,12,13
- 10 - 10 - 10 - 10 - 10 - 10 - 10 - 10	cipagé trèse mean values
	m = 2+3 = 5 = (2.5)
	m /
Open Const.	$m_2 = 4$
	m3=5+6+8+12+10/5=8.2
	How again calculate Euclidean distance
	beto center point 4 data object
	d(2,205) = (2-205)2 =
	a (2,14) = (2-4)2 = (3)
	d (2,8.2) += (2-82)2 =
	dc 24.25)
	d (4.4)
	d (4.8.2)
	Soopped with Cooper

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I Carlo La Carlo	
d(5,2.5)	2). 1 (2) (1) (1) (1) (1)
1(5)	11/6 1
d (518.2)	
d ( 6,2.5)	Fr. 13.1
d (6,4)	
dc6,8.29	
	A
d (812,5)	
d (8,4)	VC PB
d (8, 8.2)	
d(12,2.5)	CONTRACTOR OF THE PARTY OF THE
d(1214)	7.63
d(12,8.2)	(1)
	6 (4 5 8 7 ) 18 1
d (10,0.5)	Carlo F
delois	1 (of 3) bejon
d (10,8.2)	
	(1001011)
dc3,2.5)	LE GATE
a (214)	(31, 11, 15)
d(3.8.2).	
	· (the seal last)
K12 213	(PIST) Kill
K2= 4,516	(abox ) by
K2 = 8,12,10	
updale certie- point	<u> </u>
	1 VIII
$m_1 = 2 + 3/2 =$	2.3
Ma= 4+0+6/2	13=1 <b>2</b>

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	Agour calculate the desir bet new
	contra Dounter & data Objects
	contro pointer a data stoplets
	a14,2.5)
Marie attaches	d (4,5)
	d (4110)
	d(5,215)
	d(515)
	0(5/10)
	d C 6,250
	dC6,50
	d (6,10)
	d (8, 2-5)
	d (815)
	d (8,10)
	d (12,12.5)
	d(1215)
	dc12,10)
	1 Same of the same
	d(10125)
	d (1015)
	a C tomo)
	d(3,2,9)
	dc315) siand solf
	a (3110)
1	
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a proprieta de la companie de la co	

· [	Walls Mrt.
	DATE:
Recreate cluster	salle salle s
ki= 213	
K2= 41516	10.1.18
K2= B112110	
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dusk values so use ne	ed Not be
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(6-5)2+ (8-10)2+CI	12-1032 +(10-10)
= 0.25 + 0.25 + 140 +	1+4+40
= 10.5.	
The time complexity of	the k means
algo in o (ntf)	
n the no. of obj.	
La no. of custer	
E= no. of elevation:	