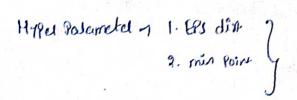
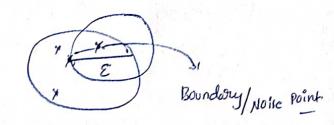
Hisaschial Chustoning [Point Matrix] Sgi. 30/4/29 K-megry: 1. Randon initialization or centroid. 2. find out distance to all the Point and marke cluster [min dist] 3. Vidate the centroid. K-means algorithmis centrois based algorithm. Hisarchied Clustering: each & every possibility w. 8- to Cleentering > each I every passibility to make -Cose ME Civil EER (3) 13 0y Gin, 13 5 05 0 9 O RERS Dendogram: Representation of hirarchial clustering australia Complemential Comple (top by bottom)

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Agglo	perfixe: 1. each point is cluster
	2. Bottom to top approach.
	3. combining all the Point of a single chapter.
	1/2 mounts 0
	Asglomentive DB scan
Ds	Scan :- Density Bayed Satel Chiman and andication with
~	Scan :- Density Based Spetal Clustering of applications with
	Density Based Approxice
	The state of the s
	. , * * *
	Y 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
	1 + + + + + + > 1 + + + + + + + + + + +
	y
1	Epsilon dissance 9.
	Coe Point Point, we need 2
3	Roder point
9	Minimum Point 1. (Outlier)
5	Minimum Point to se consider in a circle.
	order in a circle.
1.	EPS- distance = & in soint should be in-side cultic
	EPS- distance = & this much point should be in-side circle win- Point = 4 & this much point min point  A Point 11 a Che point
	The well ale at water
	minists number of points in its sourranding as
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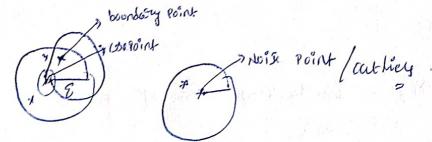
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it any point, which is necessate core point is called Bodes Points.

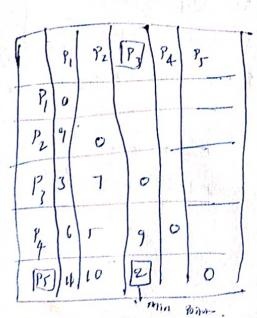


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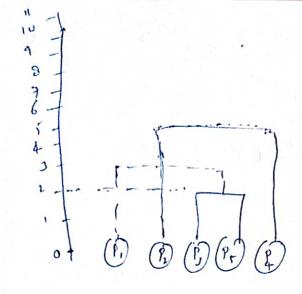
each & every point will trank as the point epsilon distance, hyperparameter-

Marsolial churciary of

first aus the distance win the points and create clusters,



min der Point = 2.



	P,	1/2	[P3, P5.	Pa
PI	0			
P2	9	0	Production in	
93,8	回	7	0	
PA	6	5	8	0
Ł		4		

d (P, (P3, P1))

men.  $[d(P_1,P_3),d(P_1,P_3)]$ min [3,11]= [3].

Here min distray is with, [P,,[P3,35]]

d [P2, [P3, P5]]
=[d(P2P3), d(P2P5)]
mon [7,10]
=[]

		(R, P3 Pr)	PZ	P4
+	PiPz Ps	0	•	
	P2	7	0	0
	P4	6	2	

D (P2, (P2, P3, P3)) U(P2, P2, P3), (P2, P5)] + Dig Un K-mean, 1 K-meany++ 92's all about Centroid ininatation K means - Randonly & - is many cass K meany tt. Cherree: Ontra clurrer divian (inside same clurter) (2) Intel (Between a cluster) man d(i, i) Dun Irden :. man d(K) inter clubel di 11 more sirea cluster d'irence I as much as possible Tome (Inter) I as low as possible I man (intra)

my best dum Index; = max (Inter)

max(Inter)