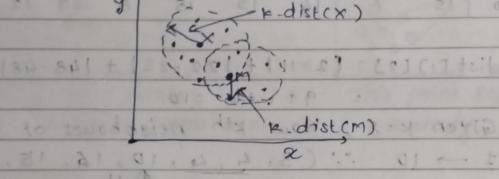
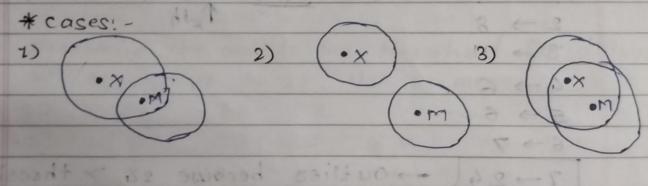
Local outlier Factor (LOF): (unsupervised) - density based technique of outlest in ml - Lot compases the local density of point with the densities of its neighbours. - points that have alsubstationly lower density than their neighbors are considered to be outliers.

1) Reacability_distance: zeach-distk(M,x)= max({ K.dist(M), dist(M,x)}) Here, 12 P PI DI 21 (6 mx) = distance of x From M.

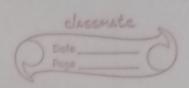




2) Local Rechability density (LRD):-

LROK(M) = teach-dist(x) X ENECKA) INK(M) anishbour distan

> For above complex alis is one dulling



3) L(OFK(M)) = 1	132013	LROX(X)
(3/0)	sib , (3	INKCH	1) XENKO	M) LROK (M)

	(14)	1 , 22.9	000	CY.		
,	Example !-					
1	index	X	y		(0),011.	
	1110000	2 1 x 1 6	3	m) trib_	W X	
	1.24	4 (13.1		2.24		
	122	1 1	2	14.1		
	13 18	3201		14.1		
	4	3	La			
	5	7	5	: (0)	NOW LPDE	
	4(8,6) 12ib		5	doos		
	disting.	8	9		Markey Markey	
	8	2)	1		
	9	3	6.			
	use distan	ce mateix	. 91YC	n in ex.	pdf. [k=2]	
	finding	Kidist &	NK.		,	
	indea	k_dist	159	lk(M)	INK(M)1	
	0	1.41	(2	13,4)	3	
	1	1.41	(4,6,9)	311	
0	2,000	2.24	(0,3,8)	3	
	11-3	1.241.4	1	(0,416)	3	
9	124	1.412		(0,1,3),	5) 4	
	. 5	4 2		(116)	2	
	6	1.41		11,3,4,	9) 4	
	7	5.66		(1, 5)	(2) 21	
	8	2 14 1	2564	(0,2)	2	
	9	1.41		(1,6)	2.	

* Reachabi	lity distance:				
teach dist	k (0,2) = mas	x(1	e. dist (2)	, dist (0,2))	
			2.24, 1.		
	- 2.			a' o lqmox 3 w	
LRDKC	-1.				
×				reach-distem,	X
2,	2-24			2-24	~
3'.	1.41			1.41	
۷٠,	1.41			1.41	
		23		4	
NOW, LRI) K(0) = 1	2	-	i i	
			, 2) + seach	-dist(0,3)+	
			Elach.	dist Co.41	
			3	3	
	= 1		6	P	
1 [N = 5]	2.24	4.1.	41-41	abib sou	
	. ,	. 8	5 + 216 - X	poibnia	
(4) 2(1)				indea	
1 200	(2314)				
LEDK(2)	(69.9)		141		
*	k-dist(x)	(d (xim)	reach diston	
0.	1.41 0		11.411	1.41	X
-3	(2/24) (0)		2.24		,
8	2(2(1)		1.401	1.4 2.2	-4
	(P10(811)		(1.1.1	2 -	
LRD4(2)	2 (1 (1)		5.66	-	
3	1.41+	12-2	4+2		
2	(3.13)		114		
	- 0.62	0.5		N	

LRD(2) RRCZX)

	LRDK(3):-
+	x b-dist (x) d(x, m) teach-dist (n,x).
1	10 19 03 (14)
1	4 Wedne 1.41 cm atri totat sit 1.41
1	6. (.41) (.41)
1	- Recording of test stored by selecting a s
1	LRDK(3) = d 1 it bank . Take
	1.41+1141+1.41
17	epotic brodesant aust real ai autom 7 = -
	the left beauch 07.00 = light beauth
	LRDx(4):-
-	× k-dist(x) d(x,m) reach.dist(m,x)
	0 300 de 41110 eteral 1.41
1X	1.41
97	3 1000000 1.41
	one based stiet. anie ant saturdina to - 1.41
	metoic like Eucledian dictance manha
	LRDICCO = 11
	1.41.41.41.41.41
	4
	= 070
	LOFK(O) = 1 . E LRDK(M) [NKUM) XENK(M) LRDK(M)
	[Nu(m) KENK(M) LRDK(M)
	loidbann-4 Ctc svitesomolege Ctc
	$\frac{1}{3} \times \left(\frac{LRDK(2)}{LRDK(0)} + \frac{LRDK(3)}{LRDK(0)} + \frac{LRDK(4)}{LRDK(0)} \right)$
	3 (LRDKCO) LRDK(O) (LRDK(O))
	= 1 x (0.53 + 0.70 + 0.70)
	$\begin{array}{c ccccccccccccccccccccccccccccccccccc$

1.09