OWM

TSEC

ENGINEERING COLLEGE

•	Naive	Bayes	Classifier.	7 3 3 3				
				au (Men	hope			
	(ar Th	eff kample	Altri bules	au colon	e ester			
	Original	h the	Englock /	stolen be				
	yes	eff kample						
	Data s	el:						
_	0		1-3	mignal	stolen.			
	(ar	Color	type	orignal				
	N_0	(0.0840 1 / A						
	-/	P e d	Sports	1)omestic	Yes			
	1	Red	sports	Doniestic	No			
	3		Sports	Domistic	Les			
	4	Red	Aports	Domistic	No			
		Jellow		Emportled	Yes			
	5	gellow	su v		No			
	6	Tellow		Tryorded	Yes			
	7	gellow	SUU	Imposed Donnald				
	8	gellon	SUV	Donastic.	No			
	9	fed	SVV	Inpuded	No			
10000	10	Red.	gnosts	Inpodes	Yes.			
	we ,	vaut to.	classify a	c Red,	domestic,			
		useen.	saysle 1	Tope there	is no.			
		of a pert	Donetic	5UU , 5	ruus is			
	own	data set		2 1 6 CF				
		p (yes) = 5/10						
		P(NO) = 5/10.						
			A STATE OF THE STA					

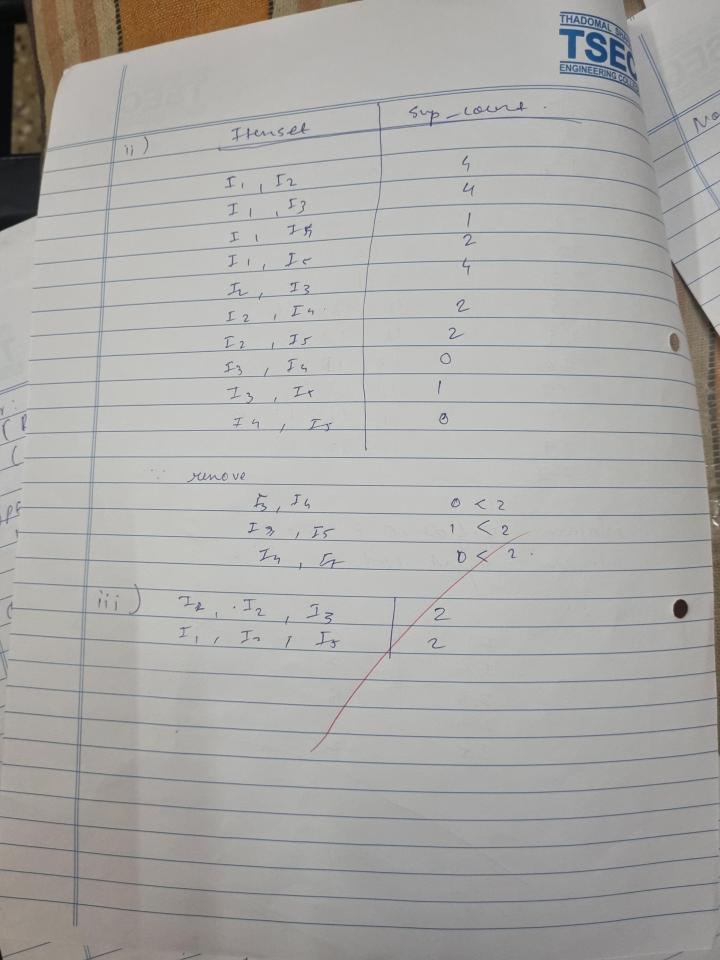


R (Red 1400) = 315 P (Red 1NO) = 215 P (Yelon / Yon) = 215 P (Yelon / NO) = 315 Color P (Yelon / Yor) = 2/5 P (SUV /NO) = 3/5 P (Ayub /NO) = 2/5 Type p (sou /4 00) = 1/5 P (Spoch / 405) = 4/5 P (Ponestic / 40) = 2/5 P(ponosic/ No) = 3/5 P (Typodd /x3) = 3/5 (Imported / NO) = 2/6 An useen sample x = < Rea, Downer, 500)

P(2/40) P(VA). = P (Red, Yu). P (Donustic. Yes). P (SVV/Y-s). 8/40) = 3 x 2 x 1 x 5 = 0.024 P(x/NO). P(NO = P(Red (NO) . P(Donothic /NO) . P(SUV/NO) . P(NO) 2 × 3 , 3 - 5 10 = 0.072. Since 0.072 > 0./024 our eacuple get. closific as 1/No!



	Apriori la ample:				
	I/o	; fems.			
	TI	1/12/5			
	T2	12 19			
	73	12 13			
	T 4	11 12 14			
		11 13			
(T 5				
	76	12 138			
	T7	11 13			
	T8	11 12 13 15			
	Tg	11 12 13			
	Ig				
	ministra condidence = 50%				
	1 1 A to 2.				
	minim confiderce = 56%. Minim sypot (ost = is 2.				
C	i) k = 1				
	7	-1 6			
		2 7			
	7	13 6			
		- 4 2			
	I	2			





Nou (orfidence (A > B) = Syport court (AUB) (Support court (A).

sala single & w. l. geritt.

		1)
-	[I1, I2] -> I3	2/4	50 %.
	(\$1,\$3) > 12	2/4	50 ×.
-	(I2, J3) > II	2/4	FOY.
	II a (IZ, +3)	2/6	33 %.
	I2 -) (I1, I3)	2/7	28 %.
	I3 -) (I1, I2)	2/6	337.

: min confidute is toy.

-i. first three $(F1, F2) \rightarrow F3$ $(F1, F3) \rightarrow F2$ $(F1, F3) \rightarrow F1$

can be consider as offency association



				0 04		40.
9).	Perform	Agglonari	ohue	Mg out	um on	22000
	Perform following uning data in	day	8 plo	of a	dendo	o orver
	uning	single .	link	Approal	e blu	elenes.
	data in	di cols	The	Listania		
		1		C	B	D.
	Item	0	<u>A</u>	2	2	3
	E	G	0	2	5	3
	A		2	0	1	6
	B	2	5	1	0	3
	D	3	3	6	3	0 .
	D	3		1		
	0 ° 0 0					
	Par E, A	•				
	1	(E,A)	C	B	D .	
	(C, 4)	(E,A)				
	C	2 2	0			
	В	2	0	0		
0	D	3	6	3	0	
111/11/11			(
	Pair (B, ().					
	(CA) (B,C) D.					
	(C,A) 0					
	(B,C)	(2)		0		
	1)	3		3	0	



Pair (EA) & (B,C).

(E,h),(B,C) (B,C) (E,h),(B,C) (B,C)

Pair (EAJB, C), D.

(E,A,B,C,D) (E,A,B,C,D)

dorit