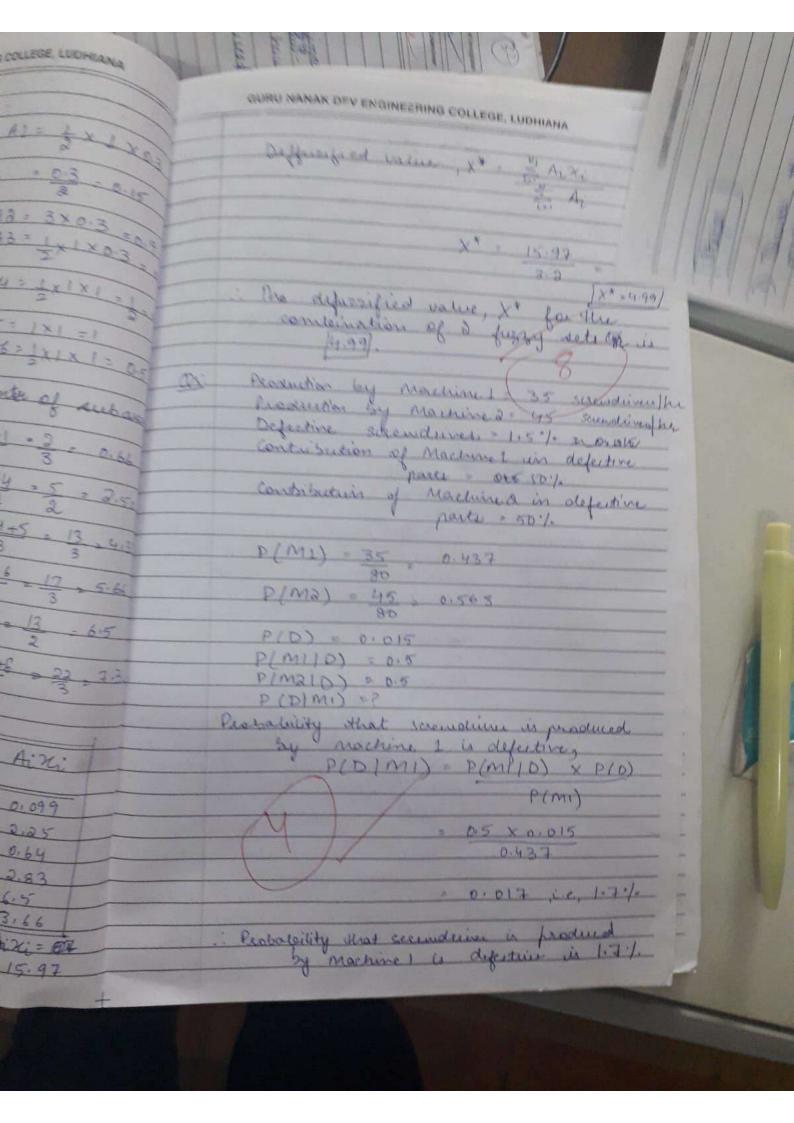
GURU NANAK DEV ENGINEERING COLLEGE, LUDHIANA

(AN AUTONOMOUS COLLEGE U/S 2(f) & 12(B) OF UGC ACT - 1956

AICTE Approved, Punjab Govt. Aided Status 150: 9001:2008 Certified Affiliated to I.X. Gujral PTU Jalandhar

IEI Accredited UG Programmes, Institute Accredited by NAAC (A Grade) & TCS (8) University Roll. No. Signature of Invigilator Dated 30-05-22 Class Beech Sec IT A2 1905334 43 Class Roll No 1921036 Total Marks Sig. of Examiner Q. No. V Marks 06 2 Figilia) herry set 2 Figli) Fuzzy set! combining figur & fig (4) 2 2 fy (W) both Dhe frissa the after dusion. whoreas total area mil calculate the

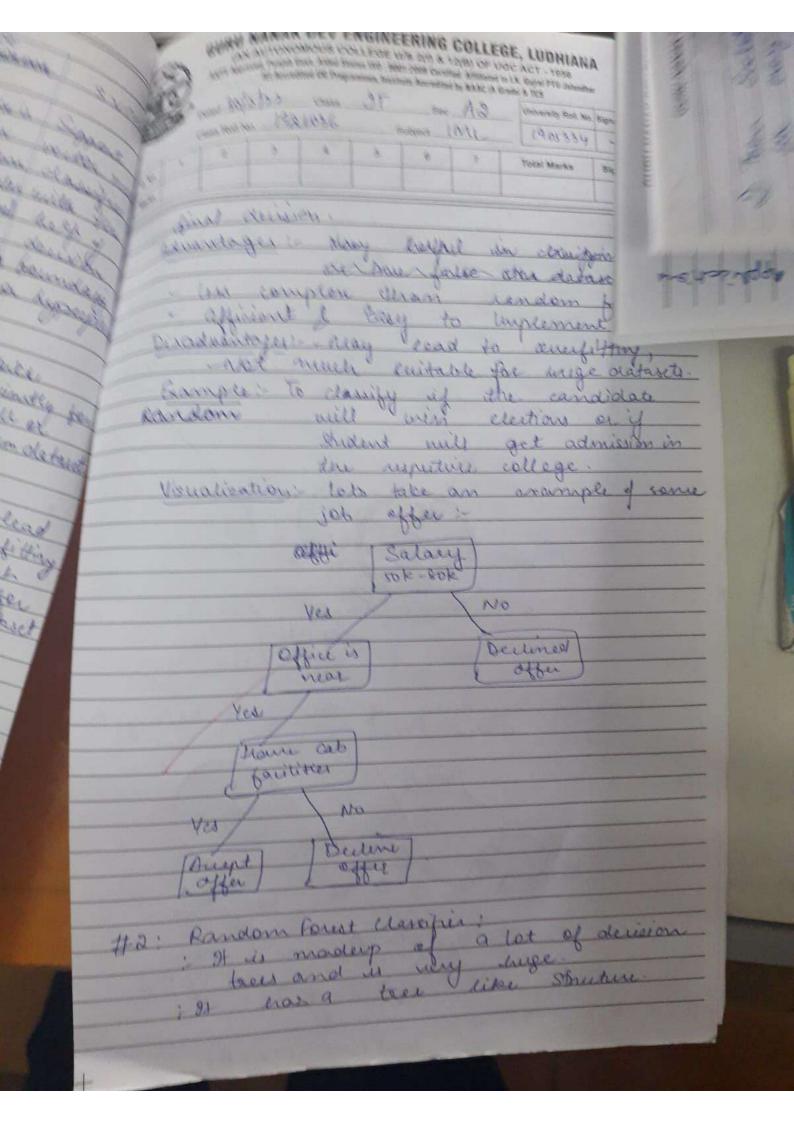
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	of all subareas.					
	Total area of Subareal, Al = 1 x 1x					Deffusified V
-				8 015	1	
3 =	Total are	a d sub a	us 2, A2 =	3 × 0.3		
0	Total area of sub area 3, A3 = 3 × 0.3  Total area of sub area 4, A4 = 3 × 1×0.3  Potal area of sub area 4, A4 = 1 × 1×1.					· No deferre
0	Total area of sub area 5, A5 = 1×1=1  Total area of sub area 6, A6 = 1×1×1=1  Total area of sub area 6, A6 = 1×1×1=1  O					4.99
5 _	Total are	a g end	area 6, A6 =	1×1×1=0	Osi	Production by
	Now we will find the center of subs					Defective Contribution
	Centar of	sub area	1,4= 0+1+1 3	3 - 0.6		Contribution
	Centre of	sub area	2, 2 = 1+4	2 7 25		
	Center of sub area 3, 26 = 4+4+5 = 13 +4					P(M1)
	Center cef sub onea 4, my = 5+6+6 17 256  Center of sub onea 5, m = 6+7 = 13 - 65  Center of sub onea 6, m = 2 2					b(Ws)
						P(D) = P(MI)0
	Putting interbular form:				14	P (D)M
1=	subde ca No.	1 Total and	1			Probability
	1	gentatea (Ai)	Center of Sylvarea (ni)	Aixi		
	3	0.9	0.66	0.099		A
	5 6	0.5	4.33	0.64		
		0.5 EA	615	6.5	_	Passalai
		EA . 3.2		3,66 3'Aixi=#		- Vansass
		THE REAL PROPERTY.		15.97	-	



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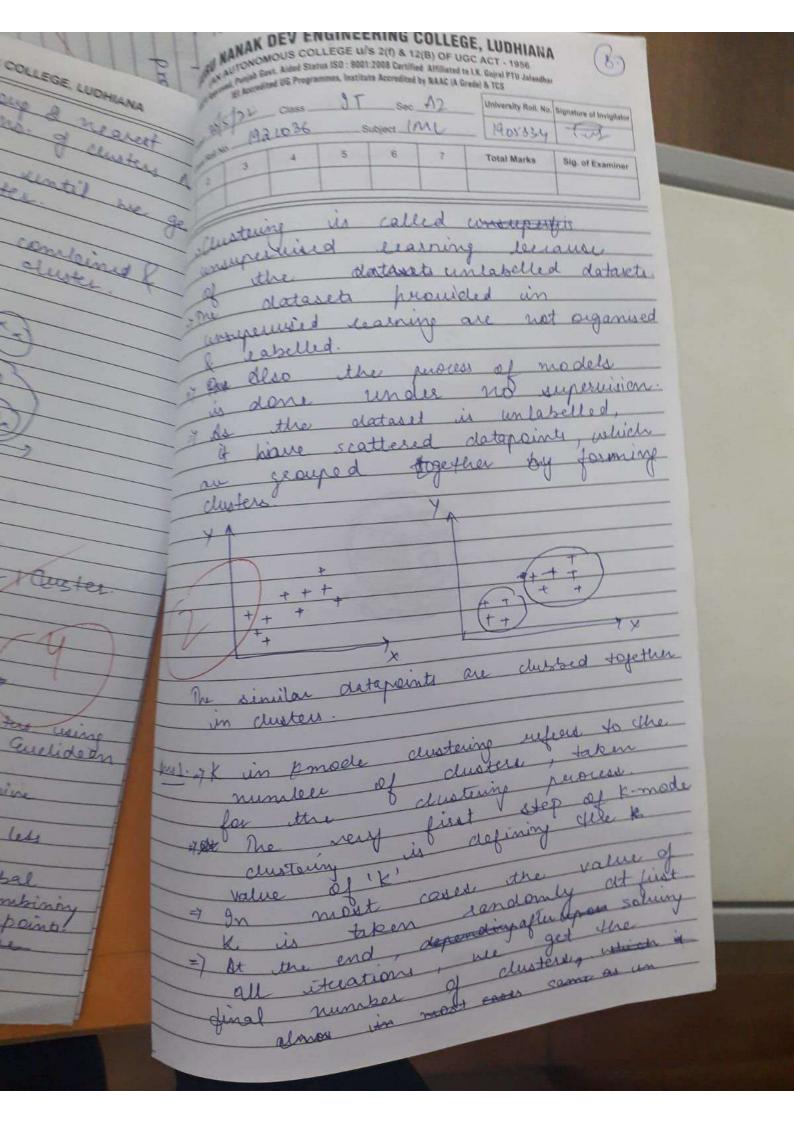
(AN A Onted 36/8/22 Class ST GURU NANAK DEV ENGINEERING COLLEGE, LUDHIANA Class Roll No. 193 1036 Nouve Bayes theorem KIND dinal devision. Logistic Regusion Suppose ofinition continuous regression K-Nearest Naive Bayes is Advantages :bayes theorem Neghbor the similarity so that calculates with Less comple of data point using conditional afficient Disaduantofui probability decision Sunition with other PLAIS) = PLBIA)XPA Grounda Clusters & Example: To axignit accordingly Randon - Very helpful - Works Adontage Good performing - lain be in probabilitie efficiently to Migualizatio your uneful shiell ox analysis. Los linear medium datas - Gives male dimensional detaiete. accurate egults. detasets. - Sometimes - May lead Disadiantya Assumes - May lead to sheefitting linearity it give to some Tero issues if - Not much between, perobability amate for dependent dotarety problem 3 toolarge detaset independent too large. - 14st a Value variables of k should The correct In finding Frangle Spann filtretion Dividing to & comentation groups, Class marks probability of stidents. ander for manufaction classification purposes wave 2 mou classification models: mence (i) Deurin Tree Classifice: ight has a of teer like structure of have get has modes, manches & leaf Front node contains & whole dataset, branches contain leaf mode is



sexpical Agglomersty EGE, LUDHIANA mes worder on their tolatacet provided is a there deixe this are felow cons when the day ull of structure. process emptine it make luster at the end is also known as medity in ACNES 2 abodel Ing Seps working of Agglomenative Uniterry and considered All the datapoints clatebount = clusteryice most no of cluster. fruit belongs to o de top cint "> 9 cluster check the the 2 nement group themmeting during Now che ten eass A)

QURU HANAK DEV ENGINEERIN Meretical Aggran comed under dearning dataset GURU NANAK DEV ENGINEERING COLLEGE, LUDHIANA Advantager can beep ownorm purblems In white was Winaschine struture. Disaduantages 31 It well complex - May have chalices of Ecuron ie; it ma duster och head to energiting. & Vilualization & Emanyste : It is also menting ie dataile 3 Lanny alatesus, Devimition Decision tru Decision Luc Majority Sleps Working comet dasi th clu the fruit belongs to classifying a Example. casiA) Class B. majority / Final cease - cease A)

GURU NANAK DEV END AUTONOMOUS COLLE GURU NANAK DEV ENGINEERING COLLEGE, LUDHIANA Sleps: Again ne mill group & nearest Step 4? - Repeat step 3 until me Lustowne All dusters are combined & made a Single duster is d duste Eq. studends of same standard in different vars groups. lind the nearest chusters using deff. distance metrice eite audiden distance. 27 AGNES in fire inverse of Divisione Hieroschical Clustering. 27 AGNES is less complexe & is less efficient as it doesn't take delisare consider all the grosal detapoints le gest storts combining or grouping ette local detapoints. assing.



GURU NANAK DEV ENGINEERING COLLEGE, LUDHIANA 2 In dustoring the can know the makes

(i.e. solved using WCSS). This method is made

used in k-means clustering. data is when we don't warms numerical datapoints.