,	Subject: Date:
44	De tous to form the Decision torce as nomice or possible. A corrise Decision torce is likely to be officient and given a test Date it no can reach the Decision easily.
	Information Parity: Yess No Yes No Him of into outcome
	Take Ombrella -> -ve Mone Prove = Hone Information
	Information vite, burne is more peace than sicin, Boomese condon Yes and No there is no mintrove of t and Under the class Yes and No they (t, -) one both getting compasively
	Since a sunny is more pure so it has more information. So, if over target is to make a true as comise as possible then sunny should have more priority, as the root rode.
	The is impossible to calculate information provity visually when the Data set is very trig like thousands of samples with 30/40 attributes. In this case , the amount of Decision with respect to attribute will also be greater.
	The mathematical term to calculate information provity is called enteropy.

	Subject	::			J Tree	Date:	
ighen on	The hi	from the	9 90 07	12/02/19	Roman mos	31035 72	3,070
H.	one o	ski	Enlarge	<u> </u>	1 Pur	10 M	
	Entouy	oy = Z	-PLap ;	iz no. o	f Cabols) 6	
	11	a alter		ontropy.	is calculate		
	Sunna	Rainy	Decision		obsecta -> -	no man.	tind
	Yes		Take 19		Brand o's		
311 10	lock Og	Hing Co	is didd.	as 6- +	Mone Proce	Pro sor	sent .
	Entropy (Sunny = No) = - P(DT) La P(DT) - P(T) La P(T) = - 1 Logo 1 P(DT) La P(DT) = 0 Entropy (Sunny = No) = - P(DT) La P(DT) - P(T) La P(T) = - 1/2 La P(0/2) - 2/2 La 2 2/2 2 La 2 P(0/2) - 2/2 La 2 2/2						
-11×5 25							
.07 -280							
-2015	الع أبي	haiq 5022			e in formulion		pive,

	Subject : Da			
	Enterpy (Rainy = 100) = - P(DT) Laz P(DT) - P(TSLaze	PLTS	-
	= -0.5Lg, 0.5-0.5Lg, 0.8	5		
	= 1 + Man possible +	alue.	bo the into	nmation
	Zalay al Zalay - Zalay al Zais very improv	2	-000 B 13	47.65
	Eneropy (Rain = Yes) = -P(DT) Lg2P(DT) - F	17 (La	P(T)	
	= - 0/1 Lg2 0/4 - 1/1 Lg2	1/1	52, 6 2	
	2060118714 619128 - 60118710 - 50		6[0,00,00	
	- 3/3/20 3/8 - 2/8/20 2/5			
	Entropy (Sunny) & Entropy (Exainy)			
	i. Linn is more overe.			
1 9				
	Feature beleasion is bood on printy. The	more	improve the	
1	feature is. He cass it is printiged.			
	> So, for most node surry will be picked	2,000	Thion	
	The Contract of the Contract o			
	based on the amount of information gain we			
400	for the good node. The Decision care cree		~	
	on the information gain is called IDS. The			rusion
	gain. the more printity it gots to be the	- 4000	note,	
		BARRIER	the profession of the state of	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1

Date: Subject: E.g. Elsecisions = - PCYSta PCYS - PCNStarPCN = -9/14 La 9/14 - 5/14 La, 5/14 = 0.940 0 - 2.0 M2.0 - 4 ElDuscook = Sunny = -PC133lg PC113) - P(N13)lg P(N13) = - 8/5 Lg_2/5 - 7/5 Lg_2 3/5 Brayer (Rein - Yes) -- Plat Styp. 8 (27) - Plates Plate - 11 cas of - 4/4 m 3/4 Elowerook = RainS = - P(YIR) Lg2 P(YIR) - P(NIR) Lg2 P(NIR) = -3/5 Lag 3/5 - 2/5 Lg 2 2/5 2/0.971) range / / march) 1900 E (ONDROOK = Overcost S-P(Y10) Lg. P(Y10)-P(N10) La, P(N10) 2 0-4/4 La 4/4 - 0/4 La 0/4 2 ORANIAGIRO di di 2000 M I 61 (0 2000) = E(Decision) = 12 (3) - 12 (2) - 12 (0) 200940 - 34 = B (Decision) - P(3) E(3) - P(a) E(B)-P(0) E(0) 2 0.940 - 5/14 (0.971) - 5/14 (0.971) - 4/14/01 2 0.246 Quan at alm



Subject:		Date :	Tana R	
For Humidity				
R(15) P(4) Lg2P(4) - P(NSLg2P(N)			
= -9/14 Lg2 9/14-5/		HAR P		
2 0.940		R		
	(10)			
E(Humidity = High) = -P(HH)	Laz P(H/H)	S-PC		
E(Humidity = High > = - P(Y	HSLas PC	IAS-PC	11H) Lg. P([HIH]
= -3/7 L	3,3/7-4/7	Lg2 4/4		
2 0.985	1			
		vote do	The man	
B(Herni Sity = Normal) = -P	CYINSLA.	PCYINS -	b[4/1/2 rd	b CHIM
2 -6/:	1 Las 6/7 - 1	17/9/17	preso	
z 0. S				
IG (H) = E(b) - P(H)*	RCHS-PCN	J* B[N]	BFG TO	
= 0.940 - (7/14 *)	3.985 - (7/14	* 0.592	- 1018	
- 0.151		o FRO		
		Line Had		
IG(25/20.048/11/19-	Mes POINS	The Ibiz M	one Phionity	,
IG(T) = 0.029	NE 1/2 - 0/2 (1)	173B- 4	0	
		0 =		
The loss the enteropy. The	gerenton H	re inform	ation gain.	
6 = 4	1/2 - 1/2 Let	12/21	3 (M) 3	
Here, outlook has the mos	t information	gain. 50.	it will be	e the
most rode.				
50) 21 - 50) 213	- (0) 5/3 -	OFP.A = C	OIT) NI	110000
		= 0.54c		
		FP.3 = 2		
		- 6,00		
tia Olice yti	singly your	के उन्नित्त		



