ML ASSIGNMENT

MANAY AGRAWAL

and the second	ML ASSIGNME	MA	NAV MURANAL
	Decision Tre	e Boblems	
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64	0	5-4	0
58	0	57	0
28		58	0
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60		58	1 1
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	Age Greater than Equal to		on Equal to	Leu Unan			
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41				The same of the same	- Conservation		
The state of the s		5	14		0		
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4	6	5	12	40.97	2		
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5		4	4	2	910		
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1 6	5	0	1	6	12		
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7		lach	Jour t	Ate Weight Agus (Nodus)	for		
Fo	Calu		Jour t	Ate Weight Agus (Nodes) iny branch	for nucle,		
		lach	Jour f	<u> </u>	0		
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		lach	Jour for a for a labelo	<u> </u>	0		
	Weigh	lach weight = 1-	t of for a (tre) labels (tre) + 1-ve) by	iny branch - (1-v bels) (+ve)+	nuscle, re) labele tabels + (-ve) le		
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	Weigh	lach weight = 1-	four for a f	iny branch - (1-v bels) (+ve)+	nuscle, re) labele tabels + (-ve) le		
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	Weigh	lach weight = 1-	four for a f	my branch - (1-ve)	node, re)labels tatous+(-ve) be less or requort		

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	Meights	9.0		
Age	(15) Greater may squal to	less than		
41.5	0.38	0		
43.5	0.401	0.5		
46		0.44		
48	0.415	0.44		
48.5	0.408	0.44		
40.5	0.426	0.408		
51	0.444	0.335		
53	0.462	0.345		
54	0.462'	0.345		
5-2-7	0.493	0.297		
23.5	0.493 0.5	0.27		
58	0.5	0.27		
59	0.5	0.375	W.	
	0.844	0.415		
62	0.44	0.415		
65	0	0.432		
Gini =	Flotal Values crocater than Equa	1 to And x Pas (ini Weight	
	ALL JOHN NOS & Age			
	+ Yotal Noi of Values less Jotal nos of Agris	Than Age X1	Veg Ginl Weight.	
Pa Gini	Weight=) Corresponds to for ages greater = particular Age (no	veight cale	ulated Ut the	

	And the second	Chap malan ka m	
	Agu	Gini Mpurity	Tale Select Age with
	41.5	6.368	least Gani Impunity
4 ,	43.5	40.411	
	46	0.4196	Nocle to disti classify
	48	0.4196	heart disease.
	48.5	0.4190	
	49.5	0.4197	[62/2]
- 1,	51	0.416	[5 7.6]
	C3	0.410	1 <57.5
- 4	54	0.410	7=57.5
	22.2	0.385	
	57.5	0.366	Marian 100
	108	0.366	
	59	0.4	
	62	0.419	
	64	0.419	
44.	65	D. 410.	

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Slope	He	mt	Discas	<u> </u>			
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glope,	1 /	legin	+ 1/2 is	horsy			
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Chapto	3 32	ASSIG			7	1 7 2 1 Abril	
Slope		ACCRECATE VALUE OF THE PARTY OF	ceans	Disease	1	total Values	
121-146	<u> </u>	(tre)	2	(- ve)	3	may value	
A GLA	3 2		194	9		O	
		0		_ 9_		5	1
2		4		7		6 5	
3							4
conter outsten	F-13.		· Carrier Strain	A14.2			

Now, we calculate the Entropy for Each
Now, we calculate the Entropy for Gael of these slopes wing Formula
Entropy = - (total Positive Values) × long (total Ros) total Values + total Values
total Value / total Vila
- / total Negative values / pg (Negative value
- total rules log (Negative values) log (Negative value)
Slope Entropy
0.45
2 0.3
Now, we calculate Edobel Entropy where
Jokel valo : 20, Negeline Valo : 13
John van - 20, larger 100
Positive Vals = 4.
: (Global Entropy = 0.9340)
- 9000 morp = 1
Gumalakore
Nort We calculate Cumulatine Entropy.
Cumulative Endropy: 19 × 0.45+(6) × 0.3+(5) × 0.25
$\left(E = 0.355.\right)$
Gain = 5. Global Entropy - Cumulative Entropy
Gain = 5. Global Entropy - Cumulative Entropy 1 Gain = 0.934 - 0385 = 20579