	AI-ASSIGNM	ENT	19K4-1A	
Step 1	(563	134	DATE : 161	14LIYA 1112021
Dattook	Tempavature	How dity	Windy	to elay
Rainy	Hot	High	Felse	30
Reiny	Hot	High	False	46
overcest	Hot	High	fase	45
Sunny	mild	Hist	False	52
Sanny	000	Normal Wolned	Tone	23
Sunny	(00)	Normal	True	43
Overest	(001		Film	35
Reiny	mild .	High		38
Roiny	(00)	Notucl	Felse	
Surry	mild	Noted	False	46
Rainy	mild	Normal	Tone	48
Overcest-	mild	High	True	52
overest	hot	Nolmel .	Talse	44
sunny	mild	47	Tow	30
	2-	1011 C (10 cm)		
Steph Calcula	It sp, cN, Men		111751361	400
Meer	$a = \frac{\Sigma M}{M} = \frac{M}{M} = \frac{1}{M} + \frac{1}{M} $	6+41+12+237	48+52+	44+30
	V. V.	14	() ()	
2-557	20 70			
T4 =	19.78	***		
St	$=\sqrt{\frac{\Sigma(n-mean)^2}{n}}$	9.67		
	V			
(N= S	D x100 = 9.67	×100 - 24		
m	$\frac{D}{a} \times 100 = \frac{9.67}{39.7}$	8		1/3
			The second	San Harris
1 Chair	1		1	
				y
-		13-13-15-16-16		
	1		canneu wii	II Camoca
		J	· · · · · · · · · · · · · · · · · ·	4.11-00

Step3 1- Datoset is split on different attributs, the SD of each brough is calculated

SD(attr) = Ew (brough) to brough

the negalt is standard deviation graduation

SDR = 10. SD(attr)

. ISD(Target) = 9.67

Outlook

Meer	50	CV	ч	w(v)
25.2	7.7	24. 7	5	5714
46.4	4.03	8.72	4	4/19
39.2	12.2	31.0	5	5/4
	25.2	25.2 F.7 46.4 4.03	Meer 80 25.2 8.7 24.7 46.4 4.03 8.72	1 25.2 8.7 24.7 5 46.4 4.03 8.72 4

50 (out look) = 5 (8.7) + 4 (4.03) + 5 (12.2) = 8.59

SDK(out bok) = SD(Target) - SD(out bok) = 9.67-8.59 = 1.08

Tenpi-

A CONTRACTOR OF THE PARTY OF TH	Mean	SD	CV	l n	(v)
Hot	36-25	lo.34	20.6	7	414
(00)	39	11-14	71.1	4	7/4
mid	42-6.	1.38	19.65	6	6/14

SD (Temp) = 4 (10.34) + 4 (12.14) + 6 (3.38) = 10.01 SDR(Temp) = 9.67-10.01= -0.34

Humidity.

	Mee	20	(V	n	(u)u
Hip.	37.51	(0.1)	26-92	7	7/14
Novel	42	9, 4	27.4	7	7/14
Notice	4-			1 '	-

SD (Hundry = 7/14 > 10.11+ 7/14 × 9.14 = 9.77 SOR (Hundry) = 9.67-9.77 = - 0.1

M	ind	y
		U

(V) m	Meen	- 8D	CV '	N	w(v)
Tone	37.6	11.6	20.8	6	6/14
Felse	49.3	8.41	20.3	8	8/14

SD(wing) = 6/14 × 11.6 + 7/4 × 8.41 = 9.77

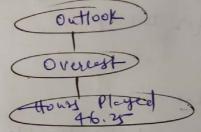
SOR (windy) = 9.67 - 9.77 = -01

- the value that has highest SDR is considered as root mode (i.e decision hode)

considering termination Priteria CV is 10% or CV is (us4)

Outlook

Value therefore we need not to further split.



like need to split node sunny and Reiny.

Outlook	Temp	Humidity	Windy	Hours	Played
Sunny Sunny Sunny	mid Cool	Hornel Normal	Felse False Tone Felse	45 52 23 46	
Sunny	mild _	Normal	Tone	30.	

Meer = 39.2

CD = 12.2

CV = 31.0.

Temp.					1-34
	Men	SD	CV	n	w(v)
mil	40.3	8.96	22-23	3	3/5
Ceol	27-5	20.50	54.66	2	45
	= 12.2-13.5°			76	1 - (may) 400
Havid .		41872	to to 1		
	Mer	92	Vy	· ~	ww)
High.	27.5	. [0.6	28.26	2	245
Normal	40.3	15-3	0 37-96	3	315
Then Che In Outlook SOR Then, che box	SPR = 7.9- eck for contract Town & Schning Windy	Tenp, High too Tenp, High too	trindity tondity windy Overest Tours plan 4-6-25		

ferry.	Y TOWN			
[outlook	Temporeture	- thindsty	windy	Howns to Play
Pery	Hot	An	false	25
Rerry	Hot	486	True	20
Renya	Mild	HN	Felse	75
Reily	Cool	Nomel	Felse	78
Reiry	1 Mild	Normal	True	48

: meen = 35.2 SP = 8.7 CV = 24.7

Temporative

Temperatue.	· mer	10	< V	n	ω(v)
Hol	-27.5	3.53	12.13	211	215
mild	41.5	9.19	22.144	2	2/5
Cool	38	0	0	1	115

SOF(Temp) = 5 (3.53) + = (9.19) + = x 0 = \$.000 SOF(Temp) = SO - SO(Temp) = 8.7 - 5.000 = 3.612

Howdity

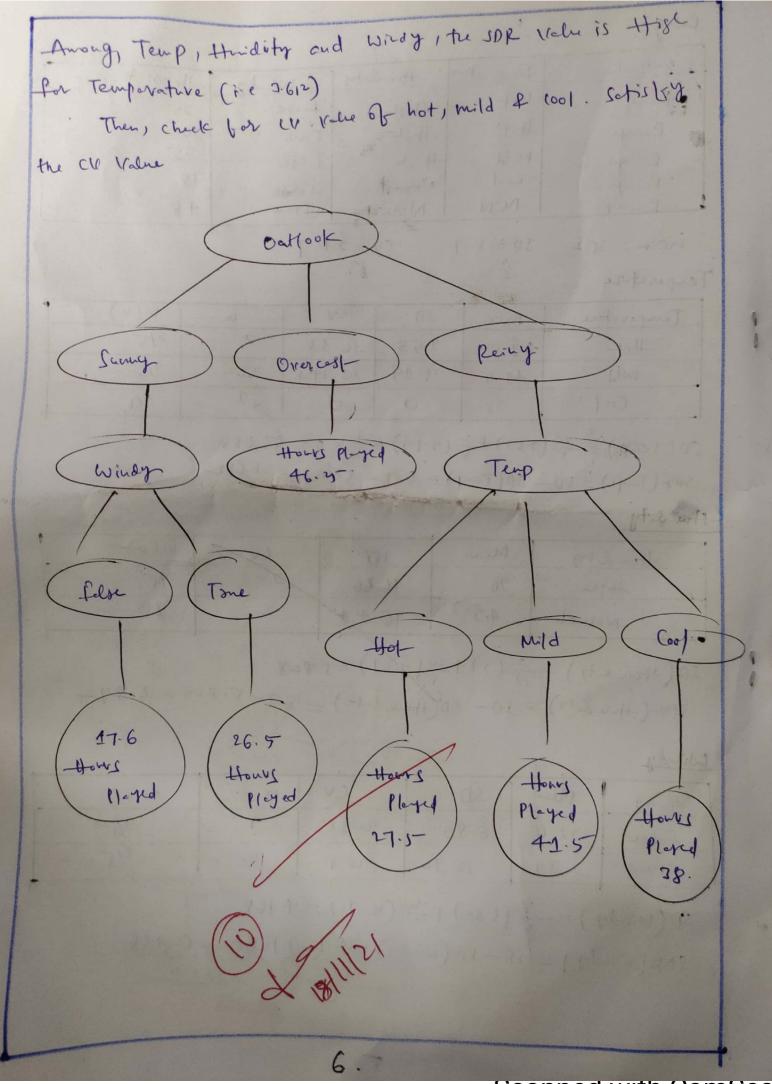
Huidity	Mei	10	W	ω(0)
Hp	20	16-66	A	2/2
Nowel	43	16:44	2	45

SD+(Hundit) = 31) - SD(Hundit) = 8.7-5.828 = 2-872

latindy

Wi-dy	Men	SD	CV	9	w(1)
Folse	12-66	6.80	20.85	2	24-
Tone	29	12-72	32-5	2	45

SD (windy) = == (6.80) + = (n.72) = 9.168 SDR (windy) = SD-SD (windy) = 8.7-9.168= -0.468.



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