Time	Match-type	Coura-o	-	1
Morning	Master	Grass	F	-
Afternoon	Grand-slam	clay	F	0
Night	Friendly	Hard	F	OF
Afternoon	Friendly	Mixed	N	
Afternoon	Mastee	clay	H	9
Afternoon	Grand-slam	Ghass	F	
Afternoon	Grand-slam	Hard	F	0
Afternoon	Grand-slam	Haed	F	-
Morning	Mastee	Grass	F	-
Afternoon	Grand_slam	clay	N	C
Night	Friendly	Mixed	F N	CH
Night	Master		Many State	-
Afternoon	Mastee	Miclay	N	
Afternoon	Mastee	Grass	F	C III
Afternoon	Grand-slam	Hard	F	C
Afternoon	Grand-slam	clay	F	
AFTO	N=2	4,00	6	

entropy for entire dataset=

$$E(5) = -\left(\frac{11}{16}\log\frac{11}{16}\right) - \left(\frac{5}{16}\log\frac{5}{16}\right)$$

$$= -\left(0.6875\right)\left(-0.5406\right) - \left(0.3125\right)\left(-1.6782\right)$$

$$= 0.3672 + 1.9907$$

$$E(s) = 0.3716 + 0.5244 = 0.8960$$

spliting dataset on time: -

Time	Match-type	Couet-sueface	outeome
Morning	Mastee	Grass	R
Morning	Master	Grass	male Inton
41011111	1)	

$$= -\left(\frac{2}{2}\right)\left(109\frac{2}{2}\right) - \left(\frac{0}{2}\right)\left(109\frac{0}{2}\right)$$

Night

spliting dataset on Aftermoon

	Match-type	court_surface	durcome	
Time		Haed	MF	
Night	Friendy	1100		
	Friedly		PMF	
Night	Master		N	
Night	1-3			

$$\frac{N1977}{M69MT} = \frac{1}{104al} = 3$$

$$F = 2 N = 1$$

$$0.3953 = -\left(\frac{2}{3}\right)\left(\frac{1092}{3}\right) - \left(\frac{1}{3}\right)\left(\frac{1091}{3}\right)$$

=(-0.66)(-0.599)(-0.33)(-1.599)=0.9199

The state of the s				-	
Time	Mash-type	Court_Surfore	outcome	-	
noon	Grand-stlam	clay	F	1	
100n	Friendly	Mixed	N		
hoon	Mastee	clay			
Moon	Grand-slam	Girass	N F		
n 00 n	Grand-slam	Hard			
noon	Grand-slam	Hoed	F	-	
1000	Grand-slam	clay	N	· III	
1001	Mastee	clay			
hoon	Mastee	Grass	N		
hoon	Grand-Slam	Haed	F		
1000	Grand-slam	clay	F		
To	otal element = 11		F	-	
	F = 7 N = 3	14		6	
(7/11) (1097)-(4/1) (1094)					
E 70	= -(0.63)(-0.6	6)-(0.3636) (-	-1.4740)	-	
= (0.63)(-0.66) - (0.3636)(-1.4740) $= (0.63)(-0.66) - (0.3636)(-1.4740)$					
	= 0.945		1=0.2 292		
		<u></u>		C	
(Time)					
Morping At					
				91	
THE RESERVE OF THE PARTY OF THE					

₽ Si Tim

$$JG = 0.8960 - \left[\frac{2}{16} \times 0\right] + \left[\frac{3}{16} \times 0.9199\right] + \left[\frac{11}{16} \times 0.945\right]$$

$$= 0.8960 - \left[0.1724 + 0.6496\right]$$

$$= 0.8960 - 0.822$$

$$JG(tim) = 0.074$$

E Spliting data on match-type: -

Time	Match-type 1	court-source	out-come	
	Grand-slam		F	
	Grand-slam	The Ball of the Sa	F	
	Grand-slam	ATENT SON	F	
	Grand-slam	PARTITION	P	
	Grand-slam	b 1470-1 8 8 8 8 8 9 8	N	
	Grand-slam	1	P	
	Grand-slam		F	114(9)3
	1 1 2000 7			

Total elements 7

$$E(Grand slam) = -\left(\frac{6}{7}\right)\left(109\frac{6}{27}\right) - \left(\frac{1}{7}\right)\left(109\frac{1}{7}\right)$$

$$= \frac{(1.5)(0.06)}{(-0.02)(-0.75)(-0.02)}$$

$$= (-0.857)(-0.02)(-0.75)(-2.000)$$

$$= 0.017 + 0.5 = 0.217$$

E(Master) =
$$\frac{1}{4}$$

Friendly = $\frac{3}{4}$

= $-\left(\frac{2}{3}\right)\left(\frac{109}{3}\right) - \left(\frac{1}{3}\right)\left(\frac{109}{3}\right)$

= $\left(-0.3956\right) + 0.5276$

= $\frac{0.132}{109}$

$$= 0.8960 - [(0.0094) + (0.375) (0.024)]$$

$$= 0.8960 - [(0.0094) + (0.375) (0.024)]$$

$$= 0.8960 - 0.493$$

$$= 0.403$$

① spliting by court

$$clay = \frac{70tal}{F} = \frac{5}{1092} = \frac{3}{5} = \frac{25}{5} = \frac{3}{5} = \frac{3}{5}$$

$$2 \text{ Mixed} = \text{Total} = 2$$

$$F = 0 \text{ N=} 2$$

$$= 60$$

= 0.8960 - 0.3034

.. root node is Court surface.

(court)				
and a de	January			
	Mixed Mixed	Grass	Hard	
APterson (Grand Maten-Type N	The Land	appason palet	
Time	Match Pype	court	ow	
After	Grand-slam	clay	OF TOH (P	
noon	Master	clay	N	
noon	Grand-slam	clay	N	
hoon	Mastee	clay	BN	
noon 1	Grand-slam	clay	F	
e(s)=	(-2/1093)(-3)(1093) A MANAMA	

$$e(s) = (-\frac{2}{5})(09\frac{2}{5})(-\frac{2}{5})(109\frac{2}{5})$$

= $+0.5.288+0.4422$
 $= -0.971$