

341-24 / Week 49

N.1. 7				<u>O</u>
-> Naive Bayes Alg		······································	various and a management	more and and
1) outlook	Temp		windy	play Golf
Rainy	Hot	High	False	No
Rainy	Hot		True	No
overcast	Hot	Hìgh	false	yes
Sunny	Mild	High	False	Yes
sunny	(001	Normal	False	yes
Sunny	cool	Normal	Touc	NO
overcast	(001	Normal	True	yes
Rainay	Mild	High 1.	False	No
Rainy	cool	Nosmal	False	Tes
Sunny	Mild	Mosmal	False	15 W E
Rainy	Mild	Nosma		, ,
ovescast:	Mild	High .		1-5
overcast	Hot	Nosmo	al Fals	•
sunny 1	Mild	High		
Rainy	- (00)	High	Tru	
<u> </u>	<u>hiin</u>	0.1	O Sunda	
Pox Play=yes				
P(Playloutlook,	Temp, hum	idty winds) + F L	13)4
		4		
= P(outlook, Ten	np, humide	Ey, windy/P	lay=yec) x
		P(Play=	1 Po Cember	2019
2 3 3 3	_x 9	P(Play=	$\frac{SMTW}{1234}$	T F S 5 6 7
- 9~9~9~2	7/14		. 8 9 10 11 15 16 17 18	12 13 14 19 20 21
= 0.005			22 23 24 25 29 30 31	26 27 28

=0.02



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for play	=N0			ia .	- 1 - 1 - 1	
P(Play=1	10/out	look, Ter	np, humidit	۲ <i>، دن</i>	[dy]	
= P(out	-look, To	emp, hu	midity, wir	idy/pl	ay=No)	X
	2	15.11	104		P(Play	=No)
3	1 . 1 .	ຊ່ <	· ·			

\			1.64.14.7
2) chills xu	nnynose	neadache	Peves Fly
GM Y	N	Mild	7
7	Y	NO	N cony
2 Sty Y Sollar	Norda	strong	
No.	14. 11200	Mib	Y VOI-V
N N	N dols	No	
N	1.4.12.19	strong	Yanay
Ner	y	strong	Negal
1	у.	Mold	7
	N	mild	7 9

I prefer tongue-tied knowledge to ignorant loquacity. - Mai

- Marcus Tullius Cicero



Tuesday 10

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344-217 Heek 37
3) A1 A2 A3 class
$a \in a \cdot cl$
caccl
α
b c a c2
C C C C C C C C C C C C C C C C C C C
a c b 9 110 400 4 9 1100
- 177 A CONTRACTOR OF THE STATE
P(class=cy) = - x - x - x - x - x - x - = 0
P(class = c2 x) = 3 x 2 x 3 x 3 = 0.04
laplace smoothing:
/ state of the control of the contro
= Total No of Records belonging to a pasticular
class+1
(Total No of Records of that class)+
(Total No of classes in the dataset)
$P(C_1 x) = \frac{1+1}{2+2} \frac{1+1}{2+2} \frac{1+1}{2+2} \frac{1+1}{2+2} \frac{2}{5} = 0.025$
(2+2) (2+2) (2)
P/(2/x)=(1+1)/2+11/1+1)/2+11
$P((2 x)=\frac{1+1}{3+2})(\frac{2+1}{3+2})(\frac{3+1}{3+2})(\frac{3+1}{5})=0.0576$
Gaussian NB:- Fox Continuous do to December 2019
Bernolli NB:- Por Binary data SMTWTFS
Multinomial NR:- Pox discrete data 15 16 17 18 19 20 21
22 23 24 25 26 27 28 29 30 31

The greatest test of courage on earth is to bear defeat without losing heart. - Robert Green Ingersoll