Date		
"NAINE BAYES ELASSIFIER"		
Bayer Theorem: prilor probab 1 - probab		
Daylez Theosem: Approb of hypothesis spostesion		
P(A1B) = P(A) + P(B1A)		
PCB) - marginal prob / prior posterior probab probab		
P(B) = marginal prob / prior posterior probab probab		
- Naive bayes assumes that features & independent. The presence		
- Nouve bayer assumer that features 2 independent. The presence		
Generative learning :		
It is a modine learning approach where me model learns		
how data is generated for each class		
4 learn the joint probability (164) - how inputs a eq labeley occur together		
In Once we know Play) , we can compute the postesion		
prop P(ylx) wig Bayes theorem.		
-> Estimating (4) & P(x/y) is called generative learning		
-> No Bayos has High Blas and Low Variance		
Page No		

Day
Application:
- Sentiment Analysis - Spam Detection - Lang identification
+ Page Excersiese
[Sunny, Cool, High, Strong] =?
· Calculation Fox "Yes"
P(4es) = 9/14
P(Yes / Suny, Coal, Hing, Strong) = P(Yes) + P(Sunny / Yes) +
P(Cool lyes) * P(High lyes) *
Plshong 1 yes) -> (
P(Surny Mes) = 2/a
P(Cool 14es) = 3/9
P/ High/yer) = 3/9
P (Strong 14es) = 3/9
equi> p(4es/ -) = 2/4 * 2/9 * 3/9 * 3/9 * 3/9
20-0053
· Calculation For "No"
P(No) 2, 5/14
Page No

Date	Day
. P(No/Sumy, Cook, Hight, Strong)= P(NO) + P(Sm/No) & P(Highlin)
	P(Cool (No) & P(Stry/No) 48
	2
P(Sung(No.) = 3/5	
P(Cool(No) = 415	
P(High(Nb) = 415	
P(Strong/No) = 315	•
	5/m x 3/5 x 4/5 * 4/5 * 3/5
2	0.0265
& scalling the values	2 0.794 W
	0.441
piyes)+P(No)	
Day > Plyco)	2 0.2054
P(Yes) 2 P(Yes) P(Yes) + P(No)	
P(les) Price	
ne little Take	(Porot) = 7 P(Oct) + P1
my blow implover town	(101101)
	The state of the s