10 Naive Bayes for Tent Classification
Movie Rating
Pating forom 1-10
n Tent y [21,2,3 10]
Document y ∈ {1,2,k}
Caroup of Discrete no of classes
words)
2 sidemons and all of the
m documents
(tocaining
seeviews)
) VI Com Paris C
prediction
I have in a self tunor to a for plant
P(y=c/x) x P(x/y=c) P(y=c)
10-10 ar) touch ?
y: that class given re receive w
people industrial of or in throw the colonial of
Naive Bayes:
None to stoned the evolt to sake worked
Two assumption here:
1 Bag of Words
(order of words doesn't matter)
@ Conditional Independence
p (x; 1y)
P(x: y = +ve) P(x: y = +ve)
P(x; y = +ve) P(x; y = +ve)
Happy toe Liked toe
I SIPPI S
Independent of lack other

21 = < 21, 22 21 2 NINI) P (y=d n;) = TI P (2; 1 y=d P (y) = c) Mail Inbon Social spam promotion P(y=c) = [No of examples in day c (Total examples n; -> "Happy" -) " + ve" p(n; |y=c) = [count (n; y;=c) > E count (w, y;=c w= words in a particular class denominator : Sum of counts of each word in vocab in class c numerator : Count of word 2; that occurred in class C.