Maire Boysien Classification - Probabilitie hearning > har momkin hypothesis to! clear probability makalti by. - Incremental training > training example se probability update Lti venti my Cincrease decrease) Model Probabilistic prediction > To handle uncertainty there can be multiple hypothesise Phr probabilities try mutable weight dige gye · We Know whether each of events so M, to occured · We went to find out whether event P' is true Pr (PI SAME) => Hears as banday kg computer

By Bayess Theorem: lang ka Chance Kitus by-PY(A IB) = PY(A) x PY(BIA) PIS, M, E) = PY(P) X PY (SM, E IP) = P(P) X P+(SIP) X P(MIP) XPELIP from each other. When Pir fixed. The class (byer or non-buyer) to product Raiden niklay ga, final prediction is that.

A 11
- Naive Bayesian Classification Student with fair credit
- Naive Bayesian Classification. - Test Set represents a young student with fair events
Valing
Pr (P15, -M, 76)
10
Pr(P) X Pr (S, MM, 75 1P)
P(S, TM, TE)
- statistical independence is assumed
Pr (P) X Pr (SIP), Pr (-N IP), Pr (12 (1)
PY(5,7M,7E)
Example:
The same of the sa
Positives (P) > By Computers (9/4)
(a) also get buy computer (S/4)
· Nom we calculate probabilitées for each column.
1=30 worth (P (youth) P)
31-40 mid P(mid11) 4/2 P(govr1n) 0/5
2/ 0 (4 min) 3/
1240 Senior Poseniority 99
2) Income.
P(10w1P) 3/4 P(10w1n) 15
P(medium P) 4/4 P(medium In) 2/5
(medium 1)
P(highle) 2/4 P(highla) 2/4.

6/4 P(Yesla) 1/6 (yes 1 P) D (40 16) 3/2 8(N010) 4) Creclit 6/9 P (Far In) 215 (excellent 1P) 3/a P Cexcellent in) 3/4 record. · Age = youth student = xes. credit vating = fair. Income low negetives. Positives 3/5 Youth = He Yes = student fair octedit noting low = incompe Positives = P (youthlp) x P (* 10) x P (fairlp) x P (10 m1 p) xP(p) = 24 x 6/4 x 6/4 x 3/4 = 0.6211 Negitives = . 315 x 15 x 75 x 75 x 0.0034 he will buy