Coh 774 Machine Lewry NOU 27, 2020

Lost Classin Dusin Tricks-

Logisticiz Make tatre Class: -8au- Pary

Boolen = 227 Owthenk AMIS 11 Returgli Learning Deusins Trees For YULAR 10/4° North. +1,(x4,9),e0,76,=0 -Return creakleafle); If ti (20%; 1h) ED, 3h= L

Refum Cocale Leaf (1);

Ty = Choose Best Atto To Split (D); mà = Now Node ( >26, NYLZ); Fl & 21 - K3 E the affirmate the status of t te 2 21 -- K32 Deta Point ny, add (CorowTree (De), Ve

return ny! A the Attribute to split un? 30 examples l=1-30

-> Exorr

af flus

of characterists How do we chows Grun this kind of charactershow good attribute 24 is to split the date? "Methica" - Store O E[74=12] = 2 EXE V1] = 8 4 Exj. split = 8+2 = 10 No Reduction on Exer " forgress" Measure Randonus in Hog 6 Entropy the System Rendom Vonilde Consider -2 PKly PK -EI

Assum a simple Borton Canti-

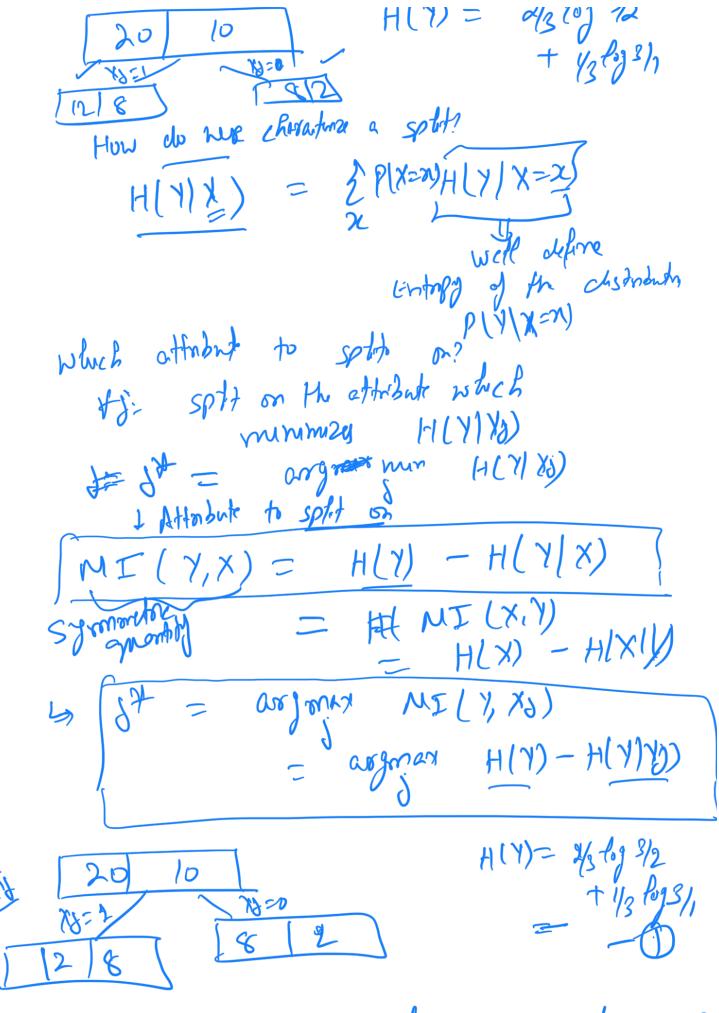
[bot|=1

HILY) = - [tolesto + p, legt) = -[plogp, + (1-p)log(t-ty)] poly by the cost box of the poly by the strains pty) :- as \$- 1 ptop >0 => The value of -[blush] is obtained at COMMIN PUNC HLY) 7550,15 ( P(Y=1) 48 {1 - - #83 4 H(Y) = 2- PKtoj PK Amount of render ress in the

System

Our qual:- To reduce the embry of

class bobil. 91 14 34



- 1 n - 1 - 1 - 1

3/5 70/5/3 + 45/1/5/2-0 H(Y/X=1) = 415 tog 5/4 + 15 tog 5/1 H(1/149=0) = H(Y(X)) MI ( 1, Xi) = H(7) - [H(7) 2=1) 2/3 +H(7) 2=9 1/3] metac Most propular metric for the attribute to split on ducism tores.