Measures of injurity My kert I (y:=4)

My kert T

K class

N tenforf

Alines a par

objects

Class apprears times a particulou class appears in trat leaf Class k oppeas in leaf m Mischars, frestion enou 1 - Purk (m); K/m) = most; common; K prost common charge of death porticulou legt 0 -> yelect purity 0.5 -> no purity bini index unet to be writered with the Gini welf EPmk Pmk! = EPmk (1-Pmk) = 1 - EPmk

K+K!

one - sum of prols host som belong to oney other class

4

Hear, 0 - perteet jurity 95 > no puity Deviance l'intermotion goin - E Pmk lig 2 Pmk 0 -7 jetect purity 1 > no purity Misclous. 1; whion: 1/16 = 0,06 Gini: 1- [(1-16)2+(15/16)2]=0,12 In famotion. - [1/16. log 2 (1/16) + 15/16. log 2 (15/16) = = 0,34

Misclausilication: 8/16-05

Eini: 1- [(8/16) + (8/16) = 7 = 95

Inhapmention gain:

- [1/16. lg\_ (1/16) + 15/16. G\_2 (15/16)]=1