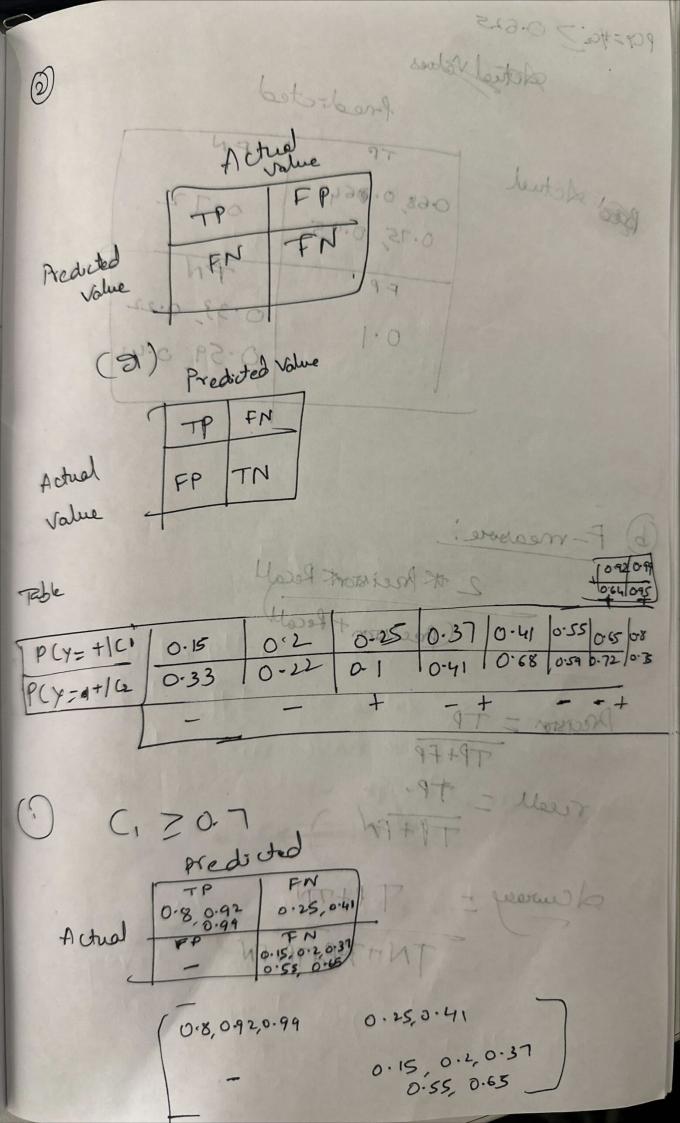
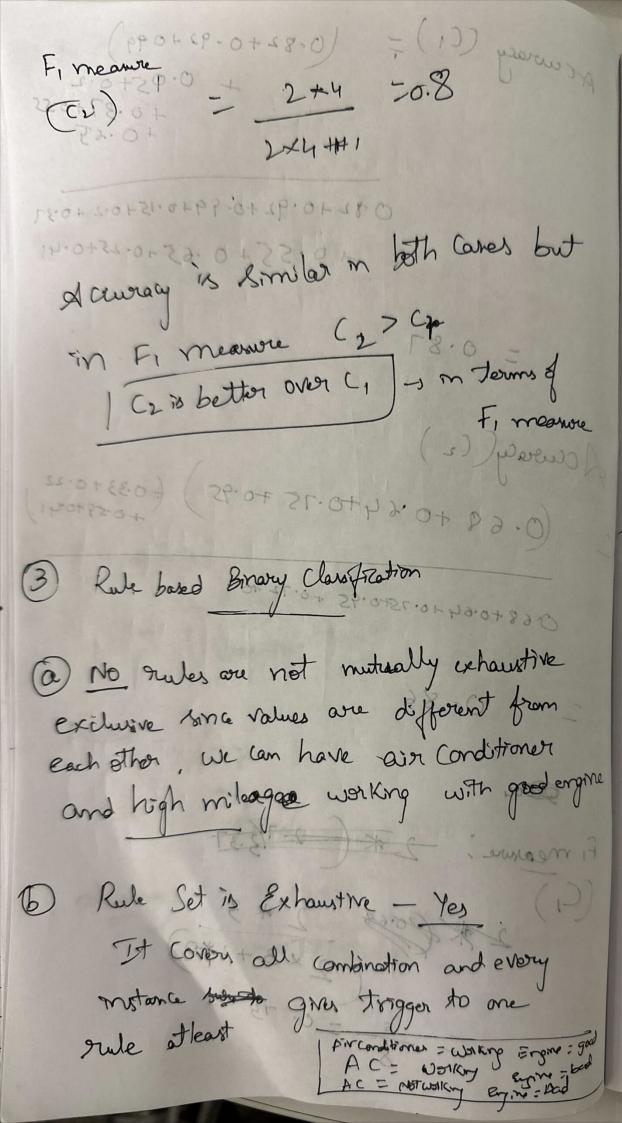
CO E(A= 40) 501 predicted labely Sai Mahesh Mudavat leuto lo dolols 11527206 (SCE 5380 Section-002



PCY= #42 7 0.625 Setual Values fred-ted angut Fin 068,0.06497 Bad Actual 0.75, 0.95 FP 0.33, 0.22 Lout 97 2 of Preistort Recall preison + fecall 1) + = Y-0.33 P= + + (Q TP+FP reell TP+FN Predicted J 6721 26.0 8.0 lout A TNAFPATPAFN 14.034.0 17.8.092,0.99

(0.82+0-92+099) + 0.05+0.2 Acavacy (C1) = +0.37+0.55 10.45 144 424 0-82-10-92+0-99+0-15+0-2 +0-37 tud soud 15d of 20:55 + 0:65 +0.25+0.41 in Fi measure (2 78.0 = Accuracy ((2) (0.69+0.64+0.75+0.95) (0.33+0.22 +0.59+0.41) 0-68+0.64-10.75+0.95 +0.72 +0.9 based slad & @ no rules are not mutually exhaustive exilisive torre values are de gorest from each other, we can have ask conditioner and high mileager wething with warpongme Fi measure; 2 x (2.7/3.37 (C1) 2 4 Go. 60 2 11 to 2 als (0) 10 (1) 10 super at least one A CB washing Engine good but the attent of the attent



Yes we need ordering because grule set so is not mutually extendive exclusive d) We don't need exhaustive default sade Class for sule because mutanco. triggery at least Healthones one sule hamagne at break Complex to create 5) Chs Rules of strength

5 Sary to implement and produce decirion tree

5 Eary to implement and produce rules -> Indirect learning algorithm - produce rules to help decision making with ability to build multiple decision trees en les values of les values of les both Categorical and Endler values bounds bounds Weakness Itas many nodes -> Builds Empty branches 78 & Zero Values

Experience bear our details from details

> Designed for Constructing models from details & Work with noisy data or it was validation so Joseph med exhibitions boom trop of of other with of other with other sit of other sites of other othe Complex to create Hard to implement along -> Chis rules algorithm generates classification Tuly
from obtain peruputive as Rules are from decision
tree which are induced with objective of partition the feature space who homogenous regions of the state of the state class at a time of the Brand of the Brand on the class one state class at a time of the Brand Browned demonstrated clames at post motorice balda Empty branches Las many nodes

6 C4.5 how class ordering Scheme which is easier to interpret Than scheme wed by Ripper as there is large difference in class size (b) Foil information gain (EA) post Accuracy (PR)

(Correct

(CA) = (19, 08) most R-> politive = 5 regulive = 5 P2 -) postre = 20 regative = 5
Postre = 50 regative = 40 Total -> 2, = 5+1=6 Positive = 5 = 5.0-83 0 83%. $\frac{22}{18h^{2} = 25}$ $\frac{25}{25}$ $\frac{2}{50} + 40 = 90$ $\frac{2}{50} = \frac{50}{90} = \frac{55\%}{90}$

Best to Rent deway - Louise develop 3 Foil information gain Fran (Ro, Ri) = P. × [log2 (P2 + In,) log (Ro-nitial Rule regative = 200 $R_1 = 5 + 6 \left[\frac{\log_2(5/6)}{2} - \frac{\log_2(50)}{250} \right] = \frac{1}{250}$ 5 (-0.263-(-2-32) $R_2 = 20 \left[\log_2 \left(\frac{20}{25} \right) - \log_2 \left(\frac{50}{25} \right) \right]$ 1/22 20 (-0.32 - (-2.32)) 00 = 40.02 - 0++

 $50 \left[\log_2 \left(\frac{50}{90} \right) - \log_2 \left(\frac{50}{250} \right) \right]$ = 50(-0.84 - (-2.32)) = 60. 74%

Ri is Worst die R3 1s highest and Best