Logistic regression: DE how) 51 Showling three hold 0.5 P(H)=ho(X) = 0,5 | i.e for all x that the (X) = 0.5

Showling three hold 0.5 P(H)=ho(X) = 0,5 | i.e for all x that the (X) = 0.5

Ne predict positivity y=1

Ne predict neglection = 0.5 P(Y=11 x;0) = ho(x) 2 P(y=0) xio) = 1-hox) 0,7 P(Y-1/X,0) = ho(X)>0,7) we predut position when how how to IPRECISION/RECAZE) and surely dues not marked Predicted positives Positives Negatives perpohia Folse True ne predict reposition who, hasker

De how I prom 0,5 to 0,7 P(y21/x;0) 7

**Rehale

**Rehale

**Production of the we consider fright to post in predicted megative y=0 fright to post in predicted megative post in pr Threshold uncreases => horizental beroles may eight up cand surely not fall olowin). (on the control of t THE TOTAL STATES OF

med =1 (ha (x) \$0,7 -> ha (x)\$ 0,5 Predictions (bed to FP) FP)

Fredictions (bed to FP)

FROM TN TN TO ANNOWN possibly more predictions (bed to FP) FP) 0,7 ho(x) 0,5 (x) hox) dronges from 0,7 to 0,5 (how) * 0,7) m> ho(x) 1 0,5 e he whill have possibly only less inequive predictions and inst more (heckellesse possibly we are amoutting costs folling in (0,530,7)).

0000 × 0000 p Postands for prediched properties PN-> preedic Twoshold of hold 1) Recall cy Presision falls 2 A 99 \$805(X) ON Recall V Precision 7 (D) - TP + FP (Q) - 2 - 1 TP+FN becourt I TP I Actual Post (E) K 2 H (8)P2L 世月四山 (9) L dd ho(x) /-> TP & (x) N B & Y Precision Recoll

lotse mosphires 000 0000 中十つ by tukering Clorifier refusions y=1 for degs PRECISION = TP TPTFP-> is what is rechangelier TP+FP uncorrely cases and uncorrect more letis oussume for well and how > 0,5 NO(X) 70,5 Recoll = 2 De cops. as positive Cox 1 Precision = hax yout

with prediction with squares more month s cheminos are just illustratives holx) recplects on and its reasoning how mon Its show how Thresholds and may combined The Muchald and folly ho(x) 20,9 Precision 1

9

(7) redicted of Prositionse (TP-1FP) It remains to be considered as predicted "Folse negatives becase had not been captured as predicto positive

aur Clossifier 0000 X X X X is, he oletect ologs, yz1 10000 XXXX Positive when day 0 900 XXXX 0000 XXXX 0000 XXXX What eye (shape) cophines is what is

predicted "positive" best side of it TP

and right side FP. o What remains out of eye is predicted as "Negative" = {x: P(y=11x; 0) < th} BTWO P(Y=1/x; a) = ha(x). All this divided who: deft side (without eye) is FN while kight side (without eye) is TN



