Mah 300 Lec 26 5/A/A lægren regressin gins p's. Hom to valobre? The p is for (2) but you don't get to see it. You only got y's what are e of = 5.13. You real 9 scoring rule  $S(\vec{p}, y)$ . A progra soring rule is: i.e. meanied of year 550 Ino propor Jales! a Log Scory rule: let Si = ye kn(2) + (-ye) kn(-pe) S= 4 850 @ Bnes Score (1750) les si = - (xi-pi)2, 5= = 550 these scores are 45d as on "R2" a news to entire model but doit have an insperson like "I wowne captail."

Viny prob, classifiers to classify, Need of his to ten  $\hat{p} = 90 \times 3 \quad \hat{y} = 1, \quad \hat{p} = 2 \times 3 \quad \hat{y} = 0$ p -> j Naire! HARD oheshold at 50%. y = 1 β ≥ 50%. j= If = 90%. Trales is liffinde so produce j=1. You must ship if CFP > CFN! this ships coform only PNPP Which redom FP 9+ the express of FN. enably our

J' = 19 = P+h Among parameter band an

Appendix cons. Each who gives

a different classifier.

Poh = (9,1)

nor wellowe beauty our Which one to choose?

GPP+ GNFN 3 Look as all of Home and choose! 9.01 0.03 311 can be sent 0-93 0.99 Her the following care is small lie of rulen gressing In holl model ... y= 1 n ≥ poi where u ~ U(0,1) AUL = 50 % of note prob. classon " Idanl: AUC=1 (1-8x) (1-8x) 4 (1-px) = foh AUC>1 = km 1 ma-pa h. pas. h Py 4(-ph) | 4p4 |