## Logistic reg

> Mean 2 SSF T pproximations > Best fit hime (Assumption) (D, 4) (कार्मिक de acti lean =>1002 matchy Won: 559 mately no. of dyech Cost = 443 matchs ration of Some event ( so to to ) Kappin & Not 559=1.26 houph. 70 -70

Non-facoh. \00000 Poobabi list (og (odds) (00000)00)

y=matc)= Det of probable 1te to the state of th lin 5(y)= 1+e-(-0) 1+e<sup>0</sup>

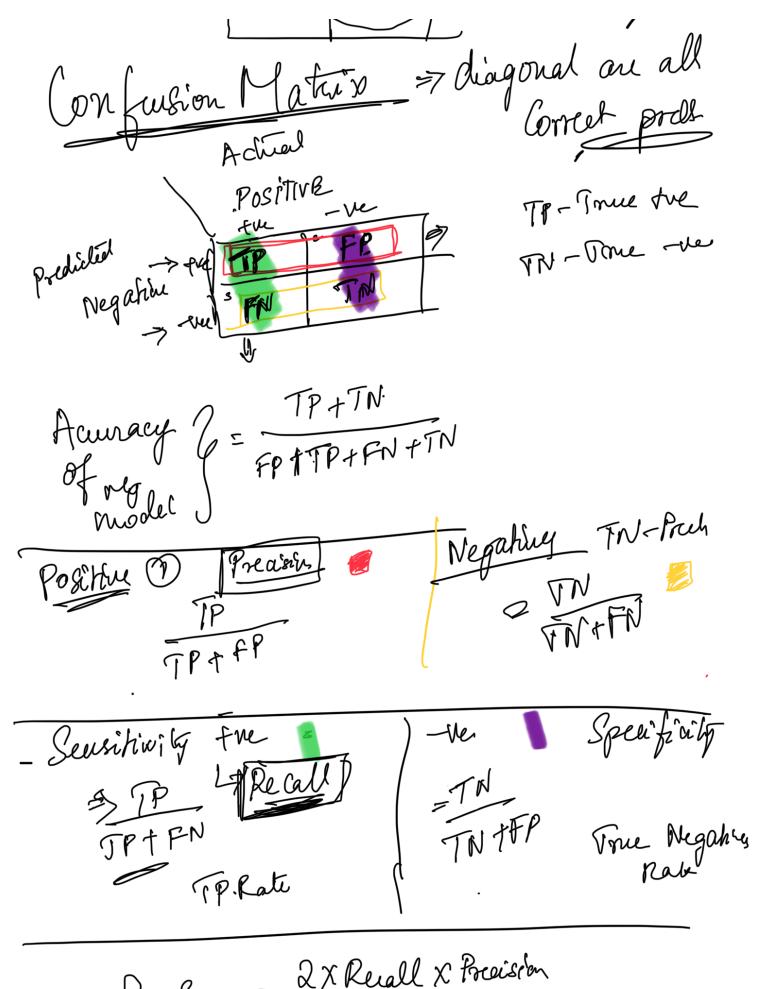
Tte フ g ふ (O1) probali Valus (Sigmoid function) y= /2 -/ 28 1/2 A limiting Lim (//22) -700

the as if papers to a gr701 Cose function?? J(0) = 1 = 6st(x, y) Common Error Class wise Error tem requirembo Ochswise logs

Blow up if its wrong redicts

reduce if predicts y= = = 0 0 y= (y(1)= = ? Cose 1 1 1 [1.20]

 $y = 0 | y = 0 | (1 - 0) = 0 | - \log (1 - y)$   $\int_{-1}^{2} \log (1 - 1) = -0 / \left[ - \log (1 - y) \right]$   $\int_{-1}^{2} \log (1 - y) = 0 / \log (1 - y)$ - (y wg (g) + (n-y) (g (1-g)) log loss 1 & [y: log (y:) + (;-yi) log n i=0 (y: bog (y:) + (;-yi) log (y:) + (;-yi) Birary Crem entrol / Log Coss-



Ream!