TTP (Y; = y; | x's & B's) Likelihod ϵ (0,1) (also probably closer to 0) $\in (0,1)$ log (likelihad) lon(1)=0

-w 2 loy (21) 20

Take the example of flipping (oin HTT What is the Maximum Likelihad estimate of P? Likelihard = $P(I-P)(I-P)^2$ lon-likelihord = In (p1 (1-p)2) $= \ln (p') + \ln ((1-p)^2)$ 1 = 1 lnp + 2 ln (1-p) $l' = \frac{1}{p} + \frac{2}{1-p} (-1)$ $\frac{1}{\rho} - \frac{2}{1-p}$ 5et = 0 solve for ρ 1 = 2 = P 1-p = 2p 1=3p $p = \frac{1}{3}$