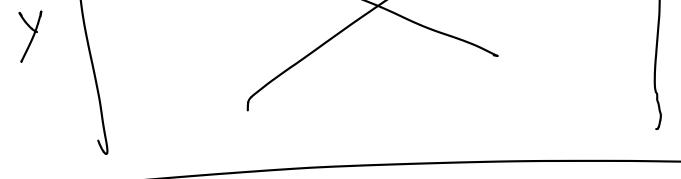


Interept Topic 1 Vacation Warf Fa-ih There are linearly Seperdent with C1 C2 C3 (4 and C2 and C3 are liverly dependent. Max m K this matrix can have is 3. => If water 15, fill rank; it is not invertible. -> (XTX) doesen? Xcontpl xd2, xd2, -- Xdp Rxit 11. X cont 1 Xcont ?



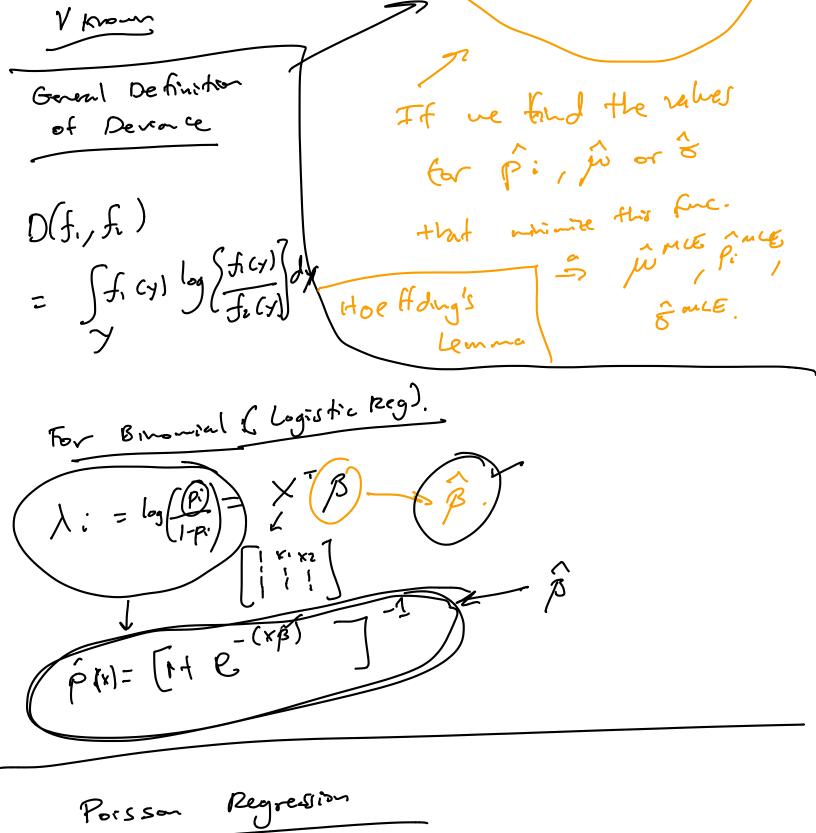
Generalized Linear Models

· Logistic regression is a special case of a more gard construction,

some used the logit function our allink" be freen our date and the Capabilities of OLS.

-> turther, re defined the Denine Guchan, cubich was a loss known more directly trilared for logistre. Reg.

Link Function Periance Ds fib. Family the whole Lateret (P) Pi) = ni. (pi.lg(pi) + (1-pi) lg(1-pi) Binomia / = log (P) 2 pl ((m-1)-1-) in) X= log Cpu) Poisson (-jù-m)2 人 = 200 Nomel with 52 Known 2 V (= -1) - (= =] 入= 一 Ganna



- After OLS and Logistic Reg Poisson Reg is the third must sed linear model.

yi ind poi (mi)

Using our lank function, let hi= log jui we will assume \(\lambda = \times \(\beta \) $\lambda = \begin{bmatrix} \lambda_1 \\ \lambda_2 \\ \vdots \\ \lambda_n \end{bmatrix}$ let's surp to an m 1 2 3 4 5

1 2 3 4 5

1 3 2

of courts.