Generalized Linear Models (GLM)

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- Francovsk · Leasn

Y= f(x) + 2

· Given

x. ... xp -> Y - follows a cortain dist!

· Molels:

- Linear Regression

 $E[Y|X_1...X_p] = \beta_0 + \beta_1 X_1 + ... \beta_p X_p$

Y -> Gaussin (Normal (errors) 1/4)=M

- Logisdre Regressm

 $E[Y|\chi, ... \chi_p] = P_r(Y=1|\chi, ... \chi_p)$

= ebs & B, X, + ··· Bp Xp

Y -> Benoull: / Bihamil

1(M) = 69 17M

· Poisson Regressm

E[YIX, ... xp]= A(x, ... xp)

= R & +B, x, ... Bp Xp

*Y > Poisson

1 (u) = log pe

· Distribute Family
- Exponential Dist -> Link Function: n(m)