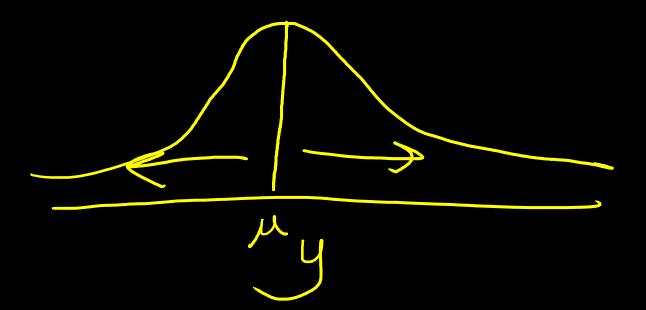
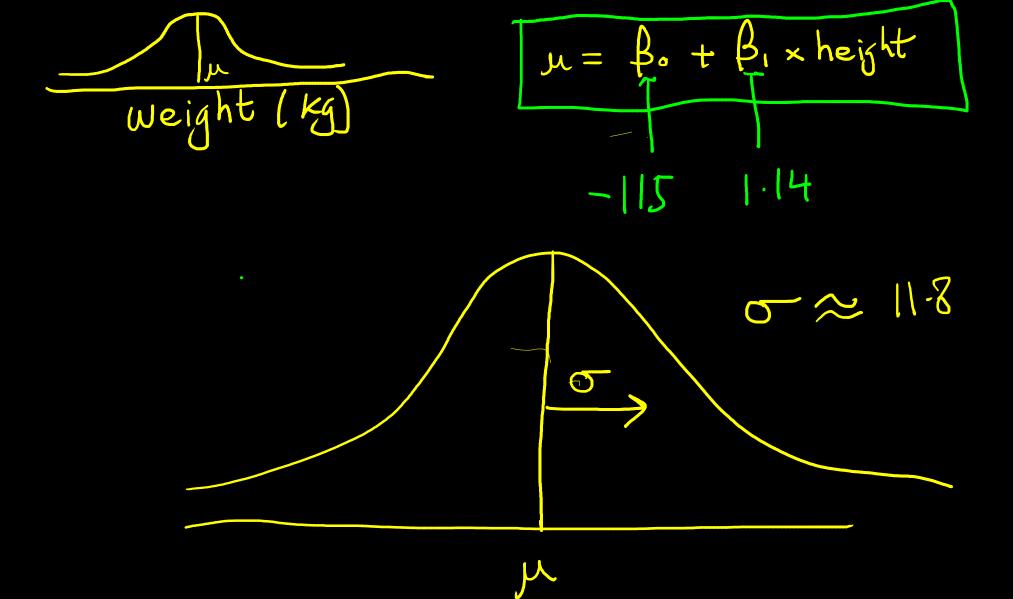
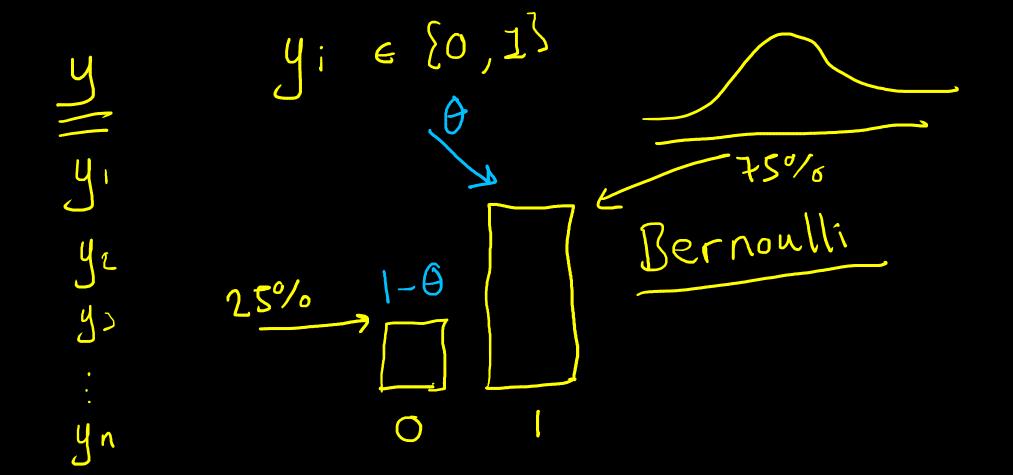
$$\frac{y}{y_{1}} \times \frac{y_{1}}{x_{1}} \sim \frac{y_{1}}{y_{1}} \sim \frac{y_{1}}{x_{2}} \sim \frac{y_{1}}{x_{2}$$

J. J.

normal distribution for i in l...n normality linear Yn

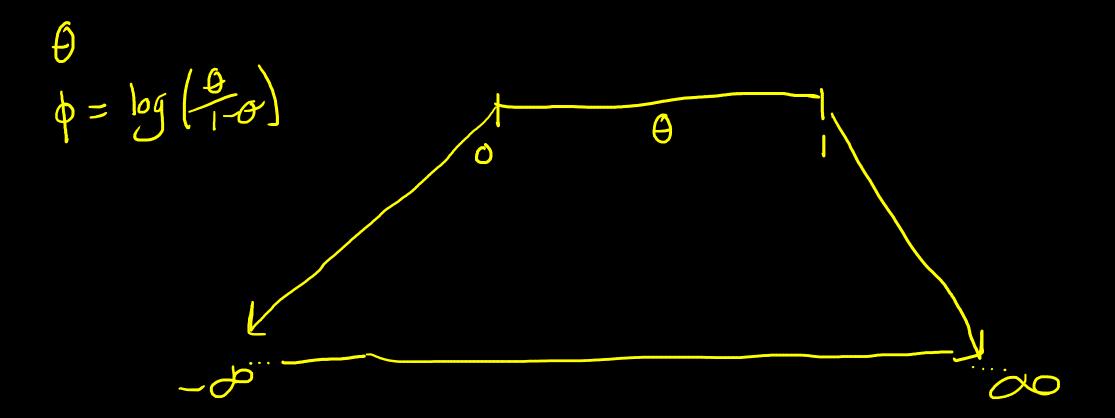


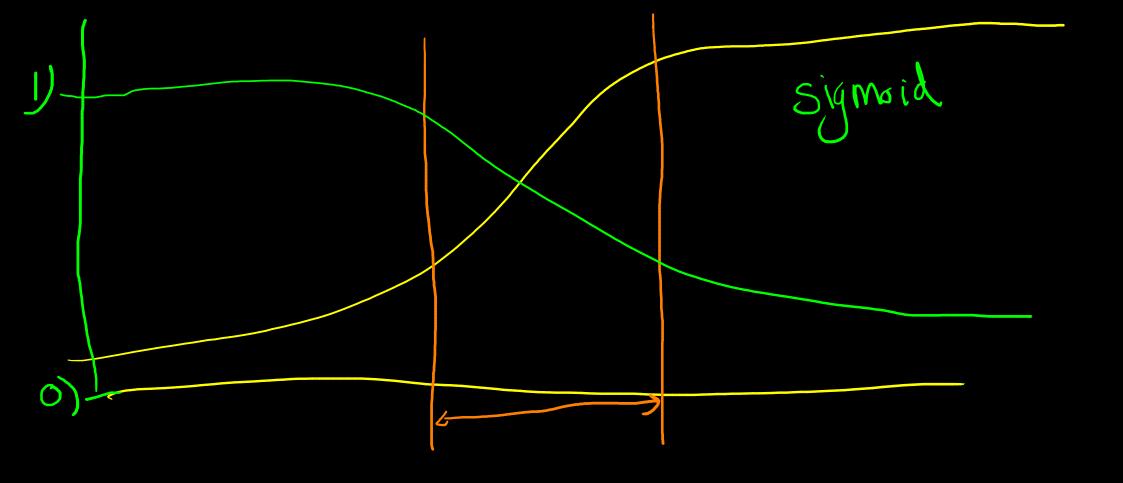


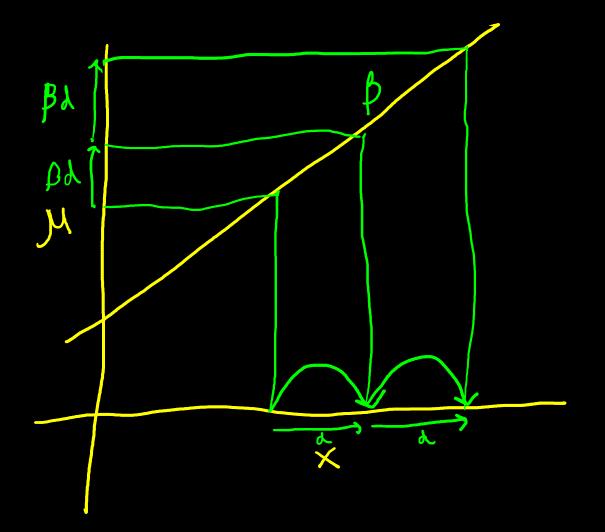


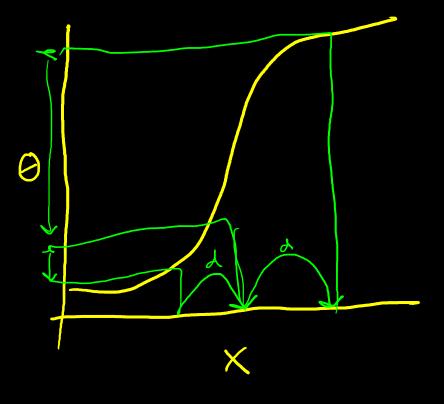
Normal linear middle for i in linear middle Yin N ( Mi, or) Mi = Do + D, X Binary logistic y; ~ Bernoulli(bi) oi = fotfixi link: logit or log odds For i in 1... n  $y_i \sim \text{Dernoulli}(\theta_i)$   $\log\left(\frac{\theta_i}{1-\theta_i}\right) = \beta_0 + \beta_1 \times i$   $\frac{1}{1-\theta_i} = \frac{1}{1-\theta_i}$ 

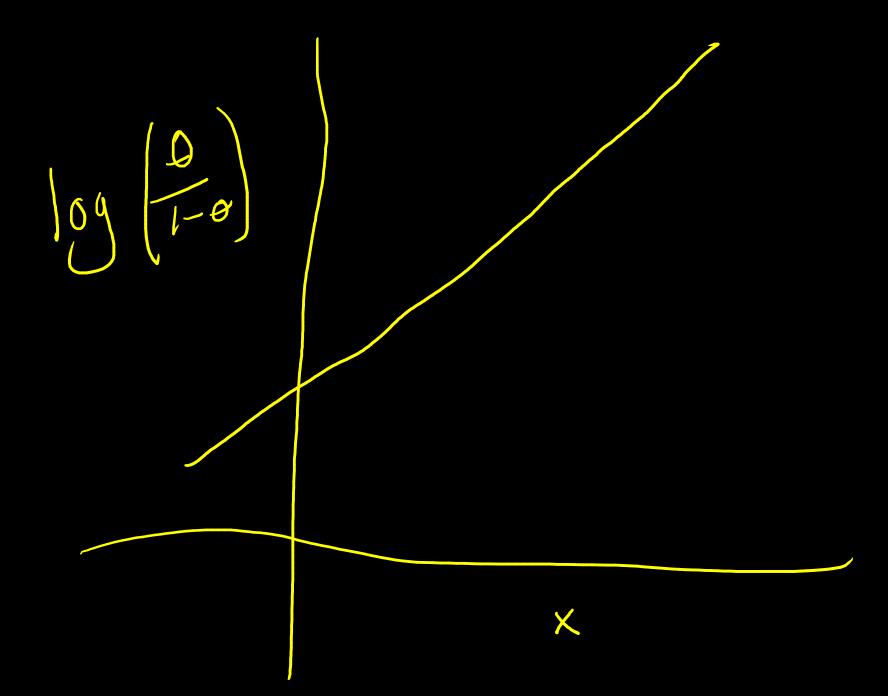
GGIP link: 0 4 odds log odds logit











P: prob job mDA

Prob job do not mDA

Prob job do not mDA

odds
1 FMBA
1 P

odds
1 FMBA
1 1 9

odds ratio:

P/1-P e.s
= 10

et = 1.06

The factor by which the odds

The factor by which the odds

changes for a unit change in the predictor

Deviance = -2 x log Likelihod Likelihord = P(outcome | predictors, B) -2 x /89 likelihood = teviance

$$LL_{6} - LL_{1}$$

$$= \log L_{0} - \log L_{1} = \log \left(\frac{L_{6}}{L_{1}}\right)$$

$$D_{0} - D_{1}$$

$$\begin{array}{rcl}
\hline
& -2 \log L_0 & -2 \log L_1 \\
& = -2 \left[ \log L_0 & -\log L_1 \right] & = -2 \log \left( \frac{L_0}{L_1} \right)
\end{array}$$

Deviance = -2 log Likelihool

AIC = Deviance + 2K