

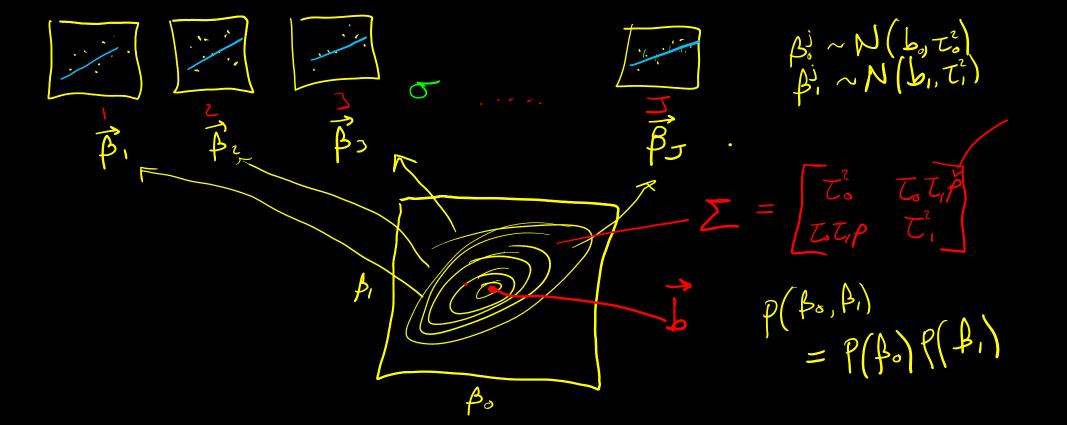
gor d in
$$0...9$$

$$y_{\lambda} \sim \mathcal{N}(\mu_{\lambda}, \sigma^{2}) \qquad y_{\lambda} = \frac{\beta_{0} + \beta_{1} \times \lambda}{\epsilon_{\lambda}} + \epsilon_{\lambda}$$

$$y_{\lambda} \sim \mathcal{N}(\mu_{\lambda}, \sigma^{2}) \qquad \epsilon_{\lambda} \sim \mathcal{N}(0, \sigma^{2})$$

$$\Rightarrow \chi = \mu + \epsilon, \quad \epsilon \sim \mathcal{N}(0, \sigma^{2})$$

for din o ... 9 Yid - N(Aja, oz) Bo + Bixid $\left[b_0 + Z_0^{i}\right] + \left[b_1 + Z_1^{i}\right] \times jd = \beta_0 + \beta_1 \times jd$ bot bot $X_{j}d$ + Z_{0}^{j} + Z_{1}^{j} $X_{3}d$ A_{3}^{j} = A_{3}^{j} A_{3}^{j} = A_{3}^{j} A_{3}^{j} = A_{3}^{j} A_{3}^{j} = A_{3}^{j $\beta_{j} = \left(\vec{b} + \vec{Z}_{j}\right) = \left(\vec{b} + \vec{Z}_{j}\right)$



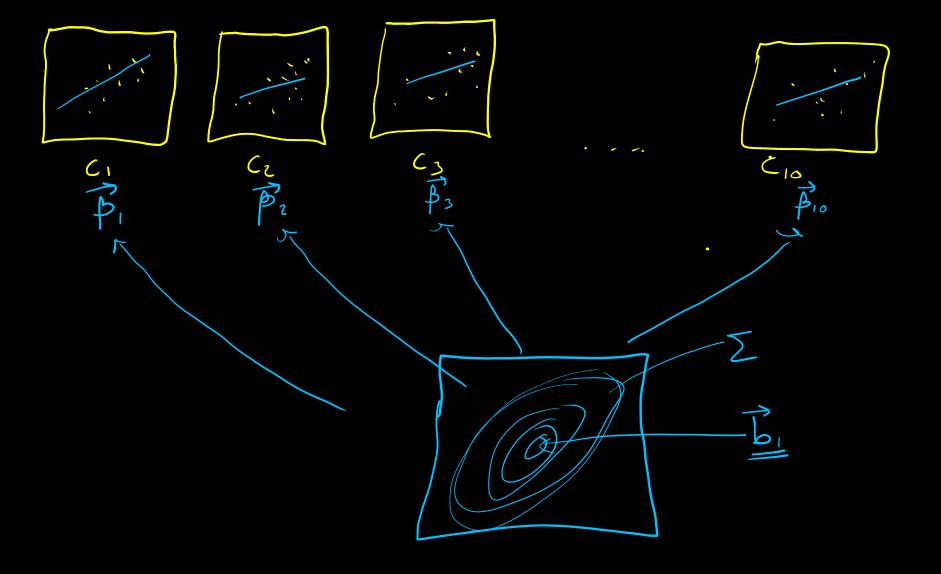
P(outcome variable values) estimates, predictor var values) Conditional probability

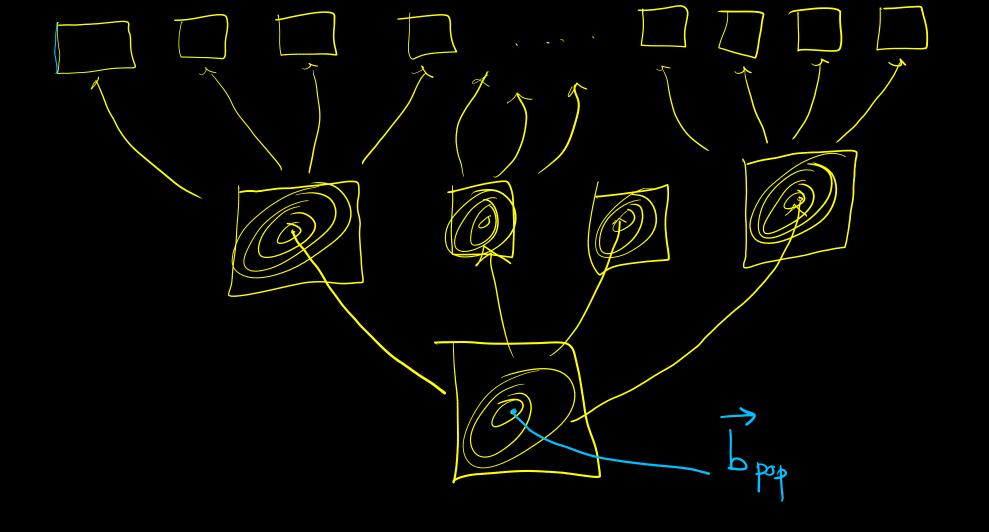
log likelihood

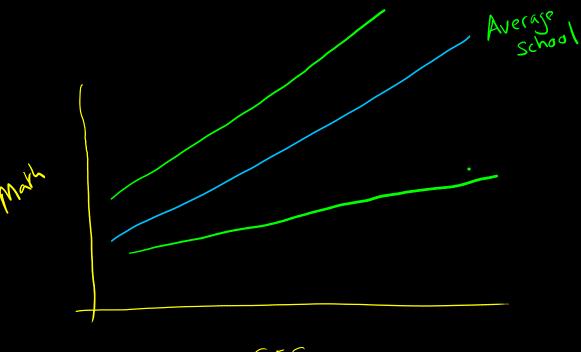
log Li

Lo

= log Li - log Lo







SES

