$$(x_{i})$$

$$(x_{i})$$

$$f_{i} = \beta_{0} + \beta_{1} x_{i} + \xi_{i}$$

$$f_{i} = \xi_{i} = 0$$

$$f_{i}$$

 $y_{\bar{c}} = \beta_0 + \beta_1 x_{\bar{c}} + (\epsilon_{\bar{c}})$ 9: ~ Normal (0, 52) yi ~ Normal (fot P, Xi, 62) ia independent observations, le { y: \ i= are mutually mdp. Joint distribution 14:5. $\frac{1}{\sqrt{2\pi}} \left\{ \begin{array}{c} \frac{1}{\sqrt{2\pi}} \left(\frac{3}{3} - \left(\frac{3}{3} + \frac{3}{3} \times 1 \right) \right)^{2} \\ \frac{1}{\sqrt{2\pi}} \left(\frac{3}{3} + \frac{3}{3} \times 1 \right)^{2} \\ \frac{1}{\sqrt{2\pi}} \left(\frac{3}{3} + \frac{3}{3} \times 1 \right)^{2} \\ \frac{1}{\sqrt{2\pi}} \left(\frac{3}{3} + \frac{3}{3} \times 1 \right)^{2} \\ \frac{1}{\sqrt{2\pi}} \left(\frac{3}{3} + \frac{3}{3} \times 1 \right)^{2} \\ \frac{1}{\sqrt{2\pi}} \left(\frac{3}{3} + \frac{3}{3} \times 1 \right)^{2} \\ \frac{1}{\sqrt{2\pi}} \left(\frac{3}{3} + \frac{3}{3} \times 1 \right)^{2} \\ \frac{1}{\sqrt{2\pi}} \left(\frac{3}{3} + \frac{3}{3} \times 1 \right)^{2} \\ \frac{1}{\sqrt{2\pi}} \left(\frac{3}{3} + \frac{3}{3} \times 1 \right)^{2} \\ \frac{1}{\sqrt{2\pi}} \left(\frac{3}{3} + \frac{3}{3} \times 1 \right)^{2} \\ \frac{1}{\sqrt{2\pi}} \left(\frac{3}{3} + \frac{3}{3} \times 1 \right)^{2} \\ \frac{1}{\sqrt{2\pi}} \left(\frac{3}{3} + \frac{3}{3} \times 1 \right)^{2} \\ \frac{1}{\sqrt{2\pi}} \left(\frac{3}{3} + \frac{3}{3} \times 1 \right)^{2} \\ \frac{1}{\sqrt{2\pi}} \left(\frac{3}{3} + \frac{3}{3} \times 1 \right)^{2} \\ \frac{1}{\sqrt{2\pi}} \left(\frac{3}{3} + \frac{3}{3} \times 1 \right)^{2} \\ \frac{1}{\sqrt{2\pi}} \left(\frac{3}{3} + \frac{3}{3} \times 1 \right)^{2} \\ \frac{1}{\sqrt{2\pi}} \left(\frac{3}{3} + \frac{3}{3} \times 1 \right)^{2} \\ \frac{1}{\sqrt{2\pi}} \left(\frac{3}{3} + \frac{3}{3} \times 1 \right)^{2} \\ \frac{1}{\sqrt{2\pi}} \left(\frac{3}{3} + \frac{3}{3} \times 1 \right)^{2} \\ \frac{1}{\sqrt{2\pi}} \left(\frac{3}{3} + \frac{3}{3} \times 1 \right)^{2} \\ \frac{1}{\sqrt{2\pi}} \left(\frac{3}{3} + \frac{3}{3} \times 1 \right)^{2} \\ \frac{1}{\sqrt{2\pi}} \left(\frac{3}{3} + \frac{3}{3} \times 1 \right)^{2} \\ \frac{1}{\sqrt{2\pi}} \left(\frac{3}{3} + \frac{3}{3} \times 1 \right)^{2} \\ \frac{1}{\sqrt{2\pi}} \left(\frac{3}{3} + \frac{3}{3} \times 1 \right)^{2} \\ \frac{1}{\sqrt{2\pi}} \left(\frac{3}{3} + \frac{3}{3} \times 1 \right)^{2} \\ \frac{1}{\sqrt{2\pi}} \left(\frac{3}{3} + \frac{3}{3} \times 1 \right)^{2} \\ \frac{1}{\sqrt{2\pi}} \left(\frac{3}{3} + \frac{3}{3} \times 1 \right)^{2} \\ \frac{1}{\sqrt{2\pi}} \left(\frac{3}{3} + \frac{3}{3} \times 1 \right)^{2} \\ \frac{1}{\sqrt{2\pi}} \left(\frac{3}{3} + \frac{3}{3} \times 1 \right)^{2} \\ \frac{1}{\sqrt{2\pi}} \left(\frac{3}{3} + \frac{3}{3} \times 1 \right)^{2} \\ \frac{1}{\sqrt{2\pi}} \left(\frac{3}{3} + \frac{3}{3} \times 1 \right)^{2} \\ \frac{1}{\sqrt{2\pi}} \left(\frac{3}{3} + \frac{3}{3} \times 1 \right)^{2} \\ \frac{1}{\sqrt{2\pi}} \left(\frac{3}{3} + \frac{3}{3} \times 1 \right)^{2} \\ \frac{1}{\sqrt{2\pi}} \left(\frac{3}{3} + \frac{3}{3} \times 1 \right)^{2} \\ \frac{1}{\sqrt{2\pi}} \left(\frac{3}{3} + \frac{3}{3} \times 1 \right)^{2} \\ \frac{1}{\sqrt{2\pi}} \left(\frac{3}{3} + \frac{3}{3} \times 1 \right)^{2} \\ \frac{1}{\sqrt{2\pi}} \left(\frac{3}{3} + \frac{3}{3} \times 1 \right)^{2} \\ \frac{1}{\sqrt{2\pi}} \left(\frac{3}{3} + \frac{3}{3} \times 1 \right)^{2} \\ \frac{1}{\sqrt{2\pi}} \left(\frac{3}{3} + \frac{3}{3} \times 1 \right)^{2} \\ \frac{1}{\sqrt{2\pi}} \left(\frac{3}{3} + \frac{3}{3} \times 1 \right)^{2} \\ \frac{1}{\sqrt{2\pi}} \left(\frac{3}{3} + \frac{3}{3} \times 1 \right)^{2} \\ \frac{1}{\sqrt{2\pi}} \left(\frac{3}{3} + \frac{3}{3} \times 1 \right)^{2} \\ \frac{1}{\sqrt{2\pi}} \left(\frac{3}{3} + \frac{3}{3} \times 1 \right)^{2} \\ \frac{1}{\sqrt{2\pi}} \left(\frac{3}{3} + \frac{3}{$ the density for yi like lihoud funti for { y; } . . . I we want L (Bo, B,) max L (Bo, B,)

maximum likelihord

ρ;= (+e) +β, ?;

$$P_{\varepsilon} = p(x_{\varepsilon}) = p_{\varepsilon}(y_{\varepsilon} = |x_{\varepsilon}|) = \mathbb{E}(y_{\varepsilon}|x_{\varepsilon})$$

PMF for to

(x:, y:)

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max L(po, A.)

Lipo,
$$\beta_{i}$$
) = $\frac{\pi}{i\pi}$ P_{i}^{3i} $(-P_{i})^{1-3}$
 P_{i} = $\frac{e^{\beta_{i}+\beta_{i}}x_{i}}{1+e^{\beta_{i}+\beta_{i}}x_{i}}$
 P_{i} = $\frac{e^{\beta_{i}+\beta_{i}}x_{i}}{1+e^{\beta_{i}+\beta_{i}}x_{i}}$
 P_{i} = $\frac{\pi}{i\pi}$ P_{i}^{3i} P_{i}^{3i