4. Linear Regression

21 October 2024 10:49

EQUATION OF LINEAR RELATION B/W X & Y $Y = \hat{\beta}_0 + \hat{\beta}_1 \approx \frac{1}{2}$, independent variable

Regression line of y on x

Regression analysis

- · Used to make predictions
- · Finals the line that best fits the data -- line of least squares (Legendre 1805, Yaws 1809)

$$\hat{\beta}_{i} = \sum_{i=1}^{n} (x_{i} - \bar{x})(y_{i} - \hat{y})$$

$$\sum_{i=1}^{n} (x_{i} - x)^{2}$$