Oct 25th

LINEAR REGRESSION

For the some x, y varies. y is continuous

LEAST SQUARES

BLS=(XTX)-1XTY

Bus is an unborated estimator

Whistle rechression. (classification - y - discrete)

$$\log \left( \frac{P(y=1|x)}{1-P(y=1|x)} \right) = \infty + \beta \chi$$

assume 2 classes

The logit fune is the log odds of being in class 1 logit to recover probability

y; = true value

y, : estimate of y;

ij= samuel mean of all y:

y : - Gi = estimated of Gi (residuals)

$$TSS = \frac{2}{5} (y_i - \overline{y})^2 \qquad RSS$$
(total gym in a savanes)

ESS = & (ý; - ý)

$$R^2 = \frac{ESS}{1-TSS} = 1 - \frac{RSS}{TSS}$$