Eczozo Session 3

tonglinnam. github. io/Eczozo

Y = a + Bx + E;

Ho: \$ = 0 -> deln't noch

Ho: \$\bar{\bar{a}} = 0 -> did noch

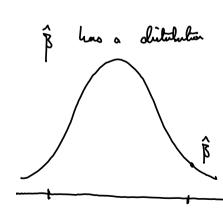
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i what do the hypotheses

if not -> false

$$\hat{\beta} = \frac{\hat{cov}(x_i, y_i)}{\hat{cov}}$$



carelule Ho is put. the

$$\hat{\beta} \sim N(\beta, \nu) \frac{e^2}{\sum (x_i - \bar{x})^2} = v$$

. I have
$$\Rightarrow$$
 reject that $\beta = 0$

. If how
$$\Rightarrow$$
 reject that is

when the
$$\beta \sim N(0, V) = \frac{1}{\sqrt{V}} \sim N(0, V)$$

$$\hat{\beta} \sim N(0, v) \Rightarrow \frac{\hat{\beta}}{\sqrt{v}} \sim N(0, 1)$$

$$=\frac{\beta}{\sqrt{3}}=\frac{\beta}{\sqrt{8}} \sim N(0,1)$$

. Assume Ho is hour ditalie starte test NN(0,1) 구= Vader Ho Se (ĝ) at calulate Prob (272 χc

ly Price; = d + B log Area; + & AR; + &; "Interpret the parameters" if Area 190 higher we would expect prie 1.33 p.p. hyler

/statistical significance "significame" of B (1) hypothers we can reject the hypothesis that \16: B=0 (2) what assumptions (3) Give T.S. and distribution 13 ~ (tn-3) melv 46 T = 1.334 = 14.66 Significant led d=10% Pich a cutoll (4. 19.,5%, 10 %...) (6) look up xc from

T= 14.66 No. B=0 100 d=1% xc = 2.57 4: 370 : rejul Ho -> B is statistically significant 2.57 14.66 NC T y: a+ 1000066) x:+ E;

O