(1-931001 (ouligaic inferre) W
M nuxuom

Case 1: o known

CI:  $\overline{\chi}^{\pm} Z_{d/2}$ .  $\nabla \sqrt{n}$   $\overline{\chi} = 1$  d = .05

v= 6

Za12 = 2.025 = 1.96

CI: (1-1.966), 1+1.966)

=(-0.96, 2.96)

Care 2: o unknown

have to estimate or from the deta

S= \\ \frac{1}{(n-1)} \frac{1}{2} \left( \tau\_1 - \tau\_2 \right)^2

5 \

CI: X=+ 412, n-1; [] ta12,n-1 scipy. stats. t. ppf(1-2, n-1) x,,...x,c colonate x, 5. 90.1. CI for n= nf.nen (X) D= NB. 249 (X) p=1/2 (x'-2)s S= np. std (x, 21.6=1) n b. sm ((X - n b. nea (X)) \*\*\* 3, \ (n-1) Ho: W= H, M = LP core 1: 5 = .3

Finel exem

april 20th 7:10-10:00 pr (Tres)

(x,,,,), ----, (x,,,)

x's = heights
y's = weights

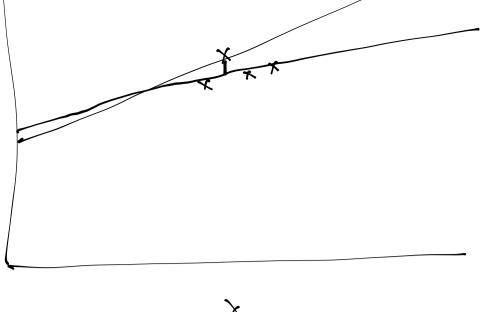
7; = 2 + Bx; + E;

€.~0(0, 5)

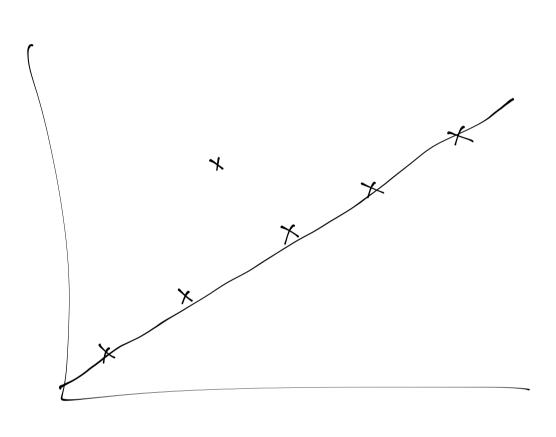
Y.~N( a+BX., o)

a, B,5

Estit it vois meximm likelihad and watered that maximized the 1:/c/:/n20 for 2, B minimize Z (y:-d-Bri)2  $\beta = \frac{\sum (x_i - \overline{x})Y_i}{\sum x_i^2 - n \overline{x}^2}$  $2 = \frac{1}{2} - \frac{1}{2} = \frac{1}{2}$  $\beta - N(\beta), \sqrt{2x_1^2 \cdot nx_2^2}$ 



X



(c):916/2: (fp 662:916/

$$\hat{\mathcal{E}}_{i} = (\gamma_{i} - \hat{\lambda} - \hat{\beta} \times \hat{\gamma})$$

calcolate confidence internals for d, B

La pootstab en celcilete antigonicintemle for d, B

(x,,,,),..., (x,,,,,) FB. reserbe beier as meper u poststab 2006, celtylet 2, B Ge ar-y pootstub (0,3),(1,2),(2,4)Lo (0,3), (0,3), (2,4) (2,4),(0,3),(2,4)ncer joing to jet a (0,4) (1,3)La fittad values  $\dot{y}_i = \lambda + \hat{B}x_i$ expectation of y./xo -> some point y, may not be in the dita 2+ Bx - confidence intervel for 2+Bxo - Prediction interd for 2+Bxo

Løire/1011 pour

confidence intervol for 2+ Bxo steplidassin) u poststab scubbiz in mip of beriez (x",1") (x",1") for ecel scrole, celc-lete &; B; (semple ) S:= 2; + B; xo step 3: calc-let the opposite poscorbles GC 3: Rudiction Intervols say I know mad 5 1,..., 2 -h(N' 2) burgiet xux1

bujeque (vfers): (r') >1+ xux1 ∈ (r')

M= Za12. 5 v rock som seddis La the to account for emin estinct m ブナZan·のりしょう

To how do nove the bootstrip to generate prediction for rejussion?

production interval for 2+Bxo steplidenstin) u poststab scublez of beriez (x",1") (x",1") step?: for ecch scribe (scrible.) J., B. (Kij, Vij) = ith poir in bookstrap surple Eine ith constern in simple?  $\hat{y}_{j} = \hat{\lambda}_{j} + \hat{\beta}_{j} \times_{o} + \mathcal{E}_{ij}$ ti is solon) for the error terms in step 3: get percentile j',