Linear Regression (-supervised learning) 1 - SL algos usally try to find the relationship between he rom (input the complet) we try to find a function that maps one the other, Liner Regretish it trying to find a linear relationship between two variables finant The fit a linear equation = 3 th by milimizing the sum of

to the data squares of distances between

the the Both data squares of distances between

the Both Both indipendent regretion line (estimate)

Dependent const sloped (pribictor)

This sim ply minimize error

regions you) regretion line (estimate) This simply minimize error SSE = \(\frac{1}{2} \left(\gamma_i - \gamma_i)^2 \\ \gamma_i = \frac{1}{2} \left(\gamma_i - \gamma_i)^2 \\ \gamma_i = \frac{1}{2} \\ \gamma_i = \f 4 & Simply &x of linear velastonship Salry

(11/1)

(Error

Yiltrue)

Expermen is height and shot size organson Where regardish fit can hell to for one unit of shor size increase d person will be on arg Zinches keller Cinches) we want SUM(9-g/2-)Min 5 × you can mar hr model more complex and hit to multilimentional to get better prediction dura for ex in shor size EK of I shor size y 5 Y = B. + B, x, + Be X2 + · · + 20 6 & many ML algos Like NN are just Expension of 12,13 # SQFT matters and Price 13;

Ocenant shit (lines Ocenative)

age dose not matter (linear indicendence) com cey 7 A in Mayl or Behind the secons you would have something with THE PERSON NAMED IN COLUMN TWO IS NOT THE PERSON NAMED IN COLUMN TWO IS NAMED IN COLUMN TW Arn me Price: w. Saft + bo
world
world
wild
w=slope (price in per saft) saftry Price (4) saft (x) Price of 200,000 1000 pro like J b = interest (price at sage=0) 1500 | 250.000 honse G +15 afr = price +: 100 soarr 19 find w/b and got: y= 100x+100,000. Scanned with CamScanner