Buther we will go on to see how to do the Bydinear descent. Then we'll find a better algorithm, and Don we will explore how to do this sent of problem, where it is not to lay to do explicately. So of we differentiate he 1straw writing how he furst my to worm about call he from he furst my to worm about call he sums in over he data Hems i Bet actually of turns out that we don't weed to worry about the fum, because les not dependentating the regardyes

mi + mi --get \$4 4 7 x2 + x3 -- MOSTAMADOMINI MAIGRAND SO THERE so we don't have to wary about those sams Ren its easy right, différentiate à Square, that drops in power by 1. , and we manholy and her we take the defferential of the inside bracket, wat Mr co - 26° We can take he that -2 outside the fum el together infact. For he second now, Wits lasor, Caushe defporential unt C Sjut -1. (b) we just get he 2 dain frampower, and minninging and all loss quelesay.

Keeping on looking at second row, and her Sung C times number date, we can take outof he sum attagether, and then judgote Sum of yi, and Sunof my time so! and of we devide that by data etems we get result that C. y=y (x; ai)=mxi+c $\chi^2 = \sum_{i} (y_i - W_{i} - C)^2$ $\nabla \chi^2 = \begin{bmatrix} 2\chi^2 \\ \frac{2\pi}{2} \end{bmatrix} = \begin{bmatrix} 0 \\ 0 \end{bmatrix} = \begin{bmatrix} -2 \leq i \chi_i(y_i - m\chi_i' - c) \\ -2 \leq i (y_i' - m\chi_i' - c) \end{bmatrix}$ C = y - mxwith g and i been the average we can carry as in hat way jand generale an answer tom, and Show waths, here don't weed to show it blow byblow.

2

(c) oc 2 om 1 5c 3+ 2 5c (x-x)2 $M = \frac{\leq (c-\bar{z})y}{\leq (c-\bar{z})^2} \quad \text{om} \quad \frac{\chi^2}{\leq (c-\bar{z})^2(n-2)}$ If a but Incly To see We con also pured the estimates for he incentantes, Called to and om Its very important when you do a flat to get on idea of the incentainties in these dethy parameters and grote hose in Cowing Back to our fletted odata, we'll BPU/ it out again seepies

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The amazing theng is how accurate the Sort of Mange, It really cool. We have quite noting data, but atgradient of 215, he incentarly conly 9, which 65%, really amaging. You should always plot you glit and wouldy Compare it, as a sorrity check We consee they his is a good when he These ars Combe's quantel, see (pc)

Transport for extransity of activities will be strictly accomisededed on case by case basis, as transport

2, If critic paracipates in appraverural activation, an articion, and control paracipates are transported as the same of the section of the same of th

3. The galler must provide auch a custer wint in actuace of the arrends can be specied to make my contract.

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all Mose 4 data sets, have the same \$2, 6 means, best fut his and uncentamber in flitting paramete Set obnish have different data In right hand two cores, probably flitting a stauptive is wong thing to do Bottom left, if your enous plying data point, se gradient different, and intercept, itsorty the top left haiflit s dang hengut theny altogether. and lost at C interest, we can see that he whoof, dozends an gradient m Sownat we said earlier, were we looked of plot of 1/2. so be is a way to re-cat the possen, which Man of data it instead.

and hen he intercept by rather than C, is the location of the Centre of mass in y, y and hen the Constant term in flet b, that Constant b, doesn't depend on the gradient on more and weeker does he in artainty include the term. from the in Centarnty in Infact of I plot at the Centar plot X2 and when I do hat I fling, "rapition" Staled, tance circles looking he (pres) $y = (m \pm \sigma_m)(\chi - \bar{\chi}) + (b \pm \sigma_b)$ $M = \frac{\sum (x-\bar{x})^2}{\sum (y_c-\bar{x})^2}$ $O_{m}^2 = \frac{\sum (x-\bar{y})^2(n-2)}{\sum (x-\bar{y})^2}$ b = g n(n-2)

D. So, Thouremoved the interacting between in and Content ferm So, It makemetically more reasonable, well problemed problem So, Rate sense of regression, of how to fly a line to some data and he is a totally really we fall life stall we stall life stall we have you proplemented wat we will do in vext flow serosens, I lake at how to do he in more Conflicated Case, wh more complicated flerobors ad how to extend to idea of regression to those Cases he man May, really, that we have defined bee had simpertant to remember, is host goodness of flit of the estimated 22 The sund Squeres, the devakes of flet from data.

and \$2 is going to be rally useful tous
going flowered.

