Cost/Expeor fxv Delerminishe from yex, (28) with additive Gaussian noise How normally distributed. What We will estimate AML Likelihood fan, behaves? IT should be We then Cost n-dim vector SN final min. - squares assume that continue we deriving a linear prediction (inference of out & estimator is): take bog ¥ > λog 11 probability of E: ~ N (0° 0° The likelihood of observing ouset of parameters (x/0)7 the log likelihood and likelihood fxn and normally distributed, ×1 +1 -0 > w3 ... !3 $p((x,y)|\beta) \cdot p(\beta)$ N2162 exp 262 that will be used for prediction (iff estimation W MLE = P(x | e) y = x TB+0 $P(\varepsilon_1, \dots, \varepsilon_n | \beta) = \prod_{i=1}^n P(\varepsilon_i | \beta)$ are & mean: Y = x TB + E; Me XXX a - x; 1 8=0 (8%) EN K IMZ occurring? $(\times^{\tau}\times)^{-1}\times^{\tau}Y$ vanance mean =0 mam (4; -xTB)2 regression equation d B You estimated comes from distributed. T(**)] 200 tren to minimize the y, -x; β = ε; NZTGT CXP (-0) what - <u>*</u> (domain of B, possible + 0 1 X:TB XTX is a non-singular matterx Because of built on the MLE method. cost: given obserations 69 27 62 $(y; -x^T \beta)^2$ 20 can be sq-root 九十五 tindopendont > values of B) 6