5 is moise given d-dim x Applying the frequentist notion probability to the handom values ethe observed vanables this rector form a rolle Bo = intercept, bias term A NON-BAYESIAN Frequentist. observations (training data) curre is distreibuted Ü classmast observing NOTE THIS APPROACH IS FXN: polynomial fisting. where e control iid. d+1 dimensions input vectors. Goal: To predict the value of one or more continuous target variables t is iid. 3 × ... P(4, - 1, 19/8) 3 w P(x, 4, where 147 predicted ù تر T 刘 residuals 300 X B; X; B × hon variable/(prediction) (x;, 4;) 1 Know X, SP So the question changes to; what is the probability × Z.Wa YeR P(E; B)= ×= × you would determing U Y = X most simple approach 000 X 0 Now introduce homogenous condinutes: to rewrite generalized equation in a compact form. This way you don't morny about the offset from the origin on the y-axis according to some B. You can assume the equation with noise that is iid. In which case, you are also trying to model the noise by predicting B. × Unean regression: independent e. then dependent dependent relationship. STATISTICAL MODEL de you know what ... value = X, B; , value Specific example of setting: nolsy regression of vaniables ر ق are distributed Generalized NOW WITH assume LINEAR gwen BUDDANG Type Ne

w

2

ノイニイス

5

3 (x1, yi)

11

involves

problem

Estimation