Ce 16 Month 390.4

Reformil regression has a syste of 'non-liver' leien modeling. lap?

Here is another 'hon-liver' leien modeling: introcessors. Spront?

1 1 0 = 2. X = [x, x_2] Ves Lec 16 Month 390.4 Consider the down with p=2. $\chi=\left(\frac{x_1}{x_2}\right)$ He for the ser $\mathcal{H} = \{ u_0 + u_1 \times_1 + u_2 \times_3 + u_3 \times_1 \times_2 : \vec{u} \in \mathbb{R}^3 \}$ I by mild you do shis? Wel, rember -H= { ho + n, x, + w2x2 } = QQ) = bo + b, x, + b2 x2 Iresport if x, Moreuses by one case, I human by b, casis on a wage regressless of the whe of X2 H= {a0+n, x, +n2x2+ w, x,x3} = p0+x, (b,+b3x2) + b2x2
= b0+x, (b,+b3x2) + b2x2 Inexp: 4 x, 11111, 3 111 b, + 63 x2 11111 Nour => You've given the model d. o. S. to have beforement slopes based on the value of the order predictors = much more the slope of Xi is by if foule & b, +63 if make.

Nan problem	
gin the Sine X, there are many H's (and A's) to	PQ.
produce differe gis.	
eg.	
$g_1 = b_0 + b_1 x_1$ $f_2 = b_0 + b_1 x_1 + b_2 x_2$	
92 - 60 + 61 log(x1) + 62 X2	
J= b2 + b1 x, 2 + b2 x2	
M= bo + bix, x bix + bix x2 + bix x2	
in finite models!!	
How to choose " which one to apply?	
Model electron - One of the nost fulmeral gressors in 1/19	_
Statistics (mybe are science - is a = E /" "	
I deas! Purudy	
801. Domy Purpose? Use Don't to estime of) = bear
I deas? Pennsky 1 2 Pann Comment of June 2 Pann Consumer of Stranger of Survey of Sur	me)
by we test &1,000, gm by Litting term on Din terror	
on Deen and paking the ac with the best error?	

You can! Pars there is a problem! her de me use how to esperie from prediction? July where to is large. I can ful gi St. enor on Dest is here O by americane! This is not a realistic estima of fine paperine! Edwoin? Raylond create Descrite also called Digitation)

Propose: Assisting & and &. 3 splies! K=5 sypril 60% tom 20% select 20% test Der ech model jezt. M3 build g; = A; (d; , D+rain) get enor oose; = enor (Yelus , &; (Xear) (45ently se) Styps 182 F) Select j = 9 gm { 005e1,..., 005em} ginn Alamid B) Conjute 005 e; + = enn (your, gir (Xxxx)) Less remes of Acarbrush E) Ship model briles mon steer 1-4 on hell dooned!

This is welled model selection by oosenor. This is one such meshod. Other meshouls ar analytical is they one stratistic / prob. models - we doing tolk about those! AIC, BIC, Cp, etc probably now get to it this sensor unformally. My Midson 3 ON FINAL There is on every step in reliablein where is assembly caployed. Repender before vacamor ne use looking of one model Various 80% /20% splir of a demanning Galacky " spler? e.g. all the 'nested! desentation is Done

Som estimate is nucle higher

though it should be 9/1 the heid" ", Doming = Variance) you ever is much low in the appende of Surene

performence