Mash 390.4 1/31/19 Lee 2 the egods sign! y = + (Z1,..., Zt) Nor a model... de snoch The causal diners persund pleason of freeze Inpossible sie Z's Gskrann. Next best thing: X,... , xp which hopefully captines a los of the information in the 215. les $\tilde{X}_i := [X_i, X_i] \in \mathcal{X}$ observer, each are variables,
constitut, features, inpro spree in comma spree! obserum, sepring, record, attributes, object, Champenners, 9 X, is able 9 Coronus varible Legrenos, Inpur, Communy X, was salay. # ER would be regime if delt > 15 cone Subject, X2 represent comme history X2 € { has past come weard, does not how past come record} Xz is called a biny variable.

he en also défine as house coine so fair commissel. X2 E & hove, 14 fracon, mirderwin, feloy 3 L=4 levels. this is called a caregoral model of love produced models reed hymbers, bon do ne note this & near ? The charces: (9) Code is with milleren only X2 E \$0,1,2,33 ordine congorne von. Major domisible: Ordine var. Coding is arbitrary (b) loke is nishow an order. Hon? hombel cargonal von. X29 \(\{\rightarrow \(\rightarrow \) \) /2 frakter or not? homsel from von. X26 € {0,13 mirdinam 11, ? X24 € {0,13 follow 11, ? if X28 = X26 = X2c = 0 = hone 1) P=3 -> P= 5 Since this single factore price to pry Pelane L-1=3 Letting

Superior & Reamy regimes 3 regularies 1) Training down D = \{\hat{x}, y, \hat{x}, \hat{x}, \hat{x}, \hat{x}, \hat{x}, \hat{x} 4 hornoral suples of upus/compas X, may be Bob's informan, y = 1 (Le report his long) x2 / Jill's // /2=1 (52e // Lez 1) X3 - O (te did now ropay) XEZY, Jegy 3 Hi= 9 sex of candidate functors hother approx. F. I so an suknown and endstray relaxantly bearing RP > R. You cannot learn / comme arbony francis. You need to singlety the contidue sea. 3) A:= an algorithm' that takes D' and H as A = A (D, 24). An epproximen to f,

Would fe H. Usuly noo! fix complex enc.
usuly and H convins, sight sumpons this can be for in A. Horaror, here is $h \in \mathcal{H}$ which is the catalase model in the most closely approxima of. $2g. \mathcal{H} = \frac{\xi_{all}}{2all}$ liver models f(x) = x + 0.15 m(x) $\Rightarrow L^{4}(x) = \frac{\xi_{all}}{2all}$ > 4'8) = x Y= h (2) + f(2) - h (3) + E(3) - f(2)

Model mirgregion our S: even du to ipour E epistory How to minimore madel misspeafin conor? Proke Hrichen more flexible able to copine of more every. The blue he expers in Et, does not good ful in! A nois be perfect and the E'S will appear random. So A dols its best to preduce $g \in \mathbb{Z}_1$.

ey. Y= fe)+ E = x+0.15me)+ E the model we use h (3)-g(2) fer-4 (8) 1 d2)- f2) misspec. Essenva (Who's left sem) It has these corporers, the those some of enou. bon so manne est on? Increase n! Bem 2?

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