ApplyingML
Debugging aleaging algo
- get movetvaining examples
- try & maller set of features (Luefully saled)
- try getting allitional features
- try olding polymonial feet so
- try lecousing)
- try incoasing L
Muchine Learning Diagnostic
J
Evaluating a Hypothesis
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Datiget Split (70/30) Training Hest proledure for his regression Learn param of from Laring often
Datiget Split (70/30) Training Itest projector for him regression Learn param of from I ming often - Lompte lest set ever

- Longeterror

Test (b) = 1 × (c) / (c) /

Model Solveton Poblems

Lhoge Go+ ... Os X5

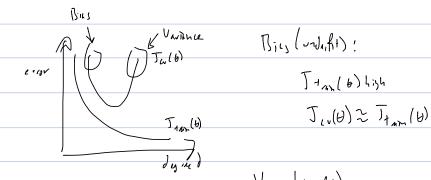
How well gargalized) Stiltotest set

H. Ufix7

Split detoset into 3 pieces: training, coss validation toot (60/70/20)

+ rain/volition/ test error

Diagnosing Biasus Variable



Variance (Uve. Fit).

Jcr(b) >> Jtrin(b)

Regularization and Birs/Variana

(hossing)

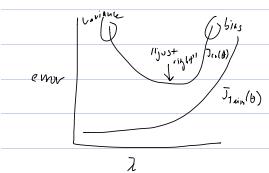
1. ty 2=0 -> min J (0) -> (1) -> J(v(6(1))

2 13 2=0.01 -> min (72) -> G(2) -> Two (0(2))

$$\lambda = 0.02$$
 $\longrightarrow 0.02$ $\longrightarrow 5_{co}(\theta_{co})$

V

12) =10.24 -> (12) -> J_{CV} (1)



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Learning Curvey

Decita, WHOTO D. Mext

- get movetvaining examples -> fixes high vaviance
- try & maller set of features Levelul, seled) fixes high variance
- try getting allitional features -> fixes high bias

