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ge muse aft othis beautimosob ed nos, or eulou renig a nob 92H bebegge alt.

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reducible Ineducible

- & observe at is (9) who small ;= entities to to (= sieil bone emainer esuber of the we so.
- e gruen li betomules eu fi agnoch blueas g heidus pa touseme at et erefer emoined. different training data set. In general mare flexible methods have higher variance.
- · bias refers to the error that is introduced by apportunating a reas-eife problem, which may be ochemply complicated, by a stropler model. More flexible => less bias.

classification setting

Same concepts as Jan MSC in regression but use error rate 1 5 I (4: 74).)

Bayes classifier

eve can reduce errarrate, by assigning each absenction to the most likely class given: to predictors value. I-Max Pr(Y=J1x=xo) is going to be the lest ever.

The operall Bayes even is 1 - E (max Pr (4 = 3 | x)), it is analogous to the eved with

K-Nearest meighbors

- . In theory we correlate use Bay es, but we don't have the conditional distribution of y given X.
- . ainen a pasitive integer k and a test Desenation to, the KNU classificativat identificatho K joints in the haining data that are classest to xo, represented by No. It then estimates esolus IV in third to mediate the fraction of faint in No whose response nalues equal j: K (4= 7/x=x0) = & [(4!=9)
- . The chaice of K place a strong impat a MIT at a MIT a decome 7 gleribo. · opple. Us ask nows toot but <= none gominant & <= slainely &.