Lec 1

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Supervised Rearing Given examples X1, Y1, ...; Xu, Yn Want to lem a predict to rule f s.t. for any new unseen example XeY we have Y ~ f(X) Pused loosely can line. different meanings I.R., given a poir XeY but where Y is hilden, we need to guess its Value

Can be hilden the:
- unknowable - Will only realize infuture
- heed an expert to tell us what
it is
Our first classification algo relum: KNN
Given a new query X:
- Find the K "closes-t" K-values
among the n examples X1, .-, Xn
- Note their indices in, ..., ik ECn] = E1, ..., ng
- Classing as the majority of the
corresponding labels:
wost common value

$$\hat{U} = f(X) = mode \cdot (\xi Y_{i1}, ..., Y_{ike} \xi)$$

(break ties at random) Must does "closest" me un? Need a distance measure