Lecture 37

Enhancing Nearest Neighbor
Nearest Neighbor

How to classify a new individual:

● Find their nearest neighbor: the individual closest to them in the data set
● Assign the new individual the same label as that nearest neighbor
Multiple Neighbors

- If data are noisy, asking just the closest neighbor might not be ideal for accuracy.
- Instead, ask the $k$ closest neighbors, and take the majority label.

(Demo)
Multiple Attributes

- We’ve used 2 attributes so far
- But nothing special about 2, just have to compute distances in higher dimensional spaces

(Demo)