Lecture 37

Enhancing Nearest Neighbor

Announcements

Nearest Neighbor

How to classify a new individual:

- Find their nearest neighbor: the individual closest to them in the data set
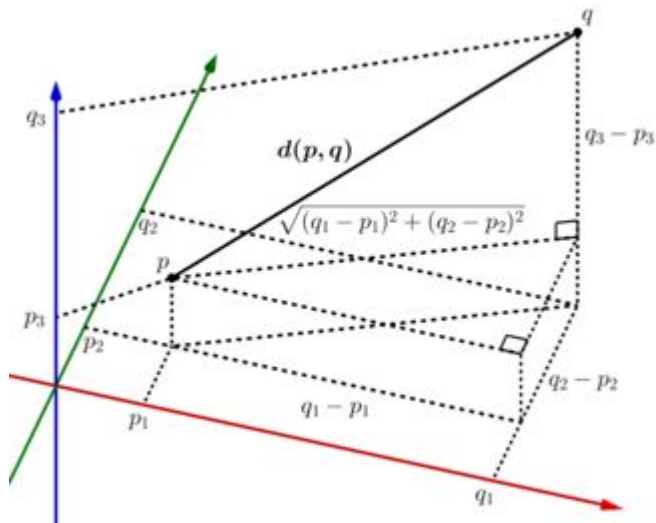- Assign the new individual the **same** label as that nearest neighbor

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)