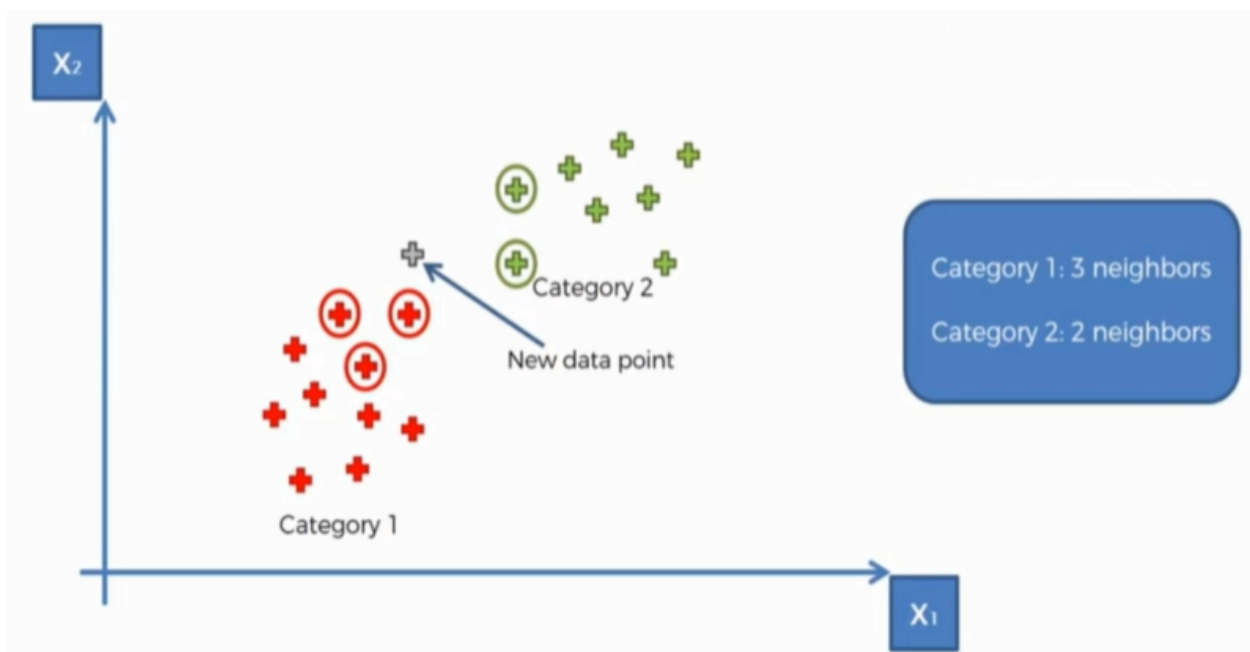# K-Nearest Neighbors

Ahman Smith

K-NN:

- Basic classification algorithms in ML
- Pattern recognition, data mining, etc

Step by Step:

1. Choose number of neighbors (K)

This means that we're choosing the amount of neighbors of the datapoint. The default value is 5 within the library.

2. Take the K nearest neighbors of the new data point (according to distance)
3. Count the number of datapoints in each category

Whichever category has more neighbors is the family that the new data point will belong to

4. Assign new data point to category where there are the most neighbors