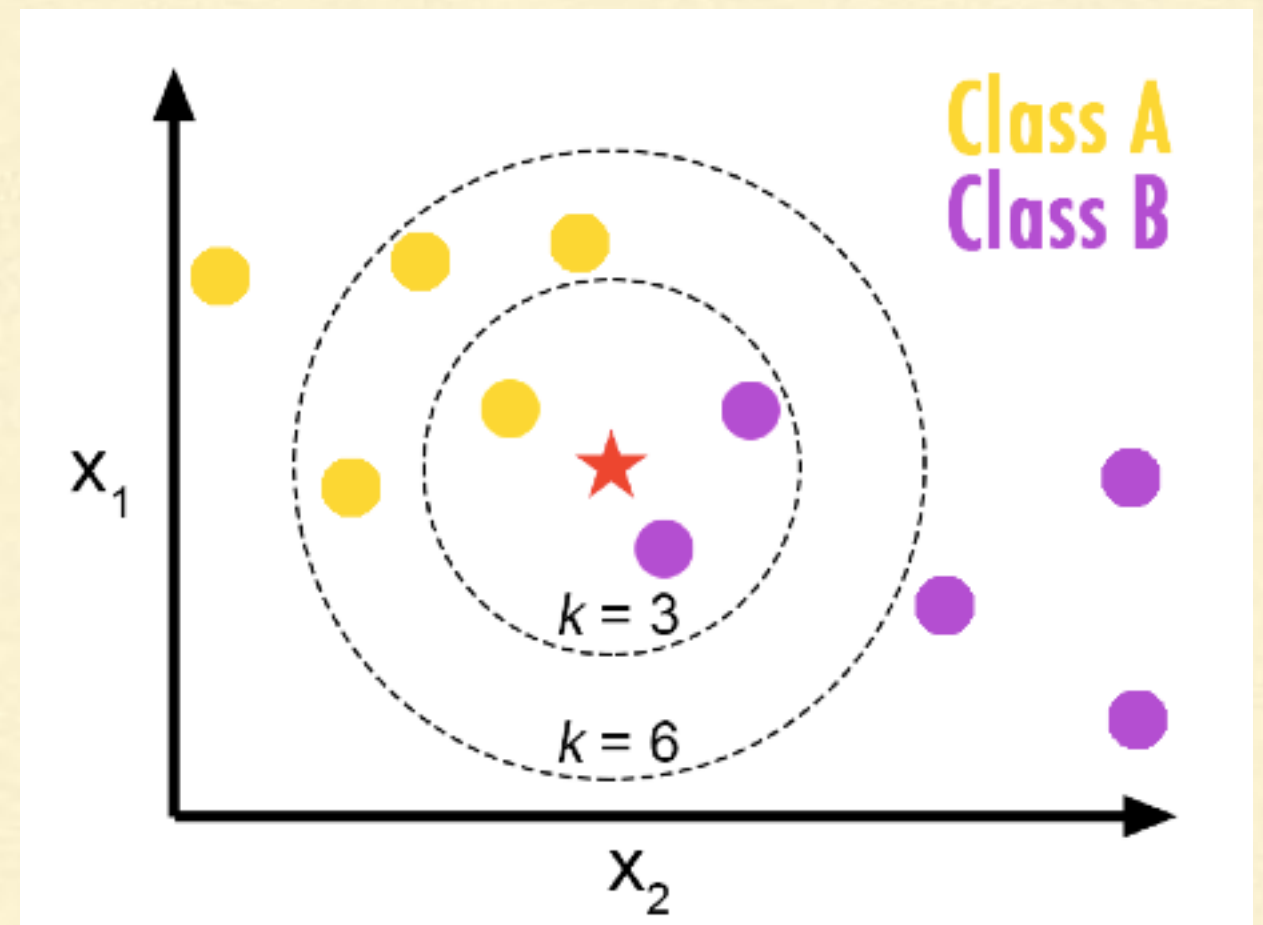


# K-NEAREST NEIGHBORS (KNN)

- sample is classified by majority vote of its  $k$  nearest neighbors



# SUPPORT VECTOR MACHINE (SVM)

- constructs a set of hyper-planes used for classification
- good separation is achieved by the hyper-plane that has the largest distance to the nearest training data points of any class
- points that lie closest to this max-margin hyperplane are called the support vectors

