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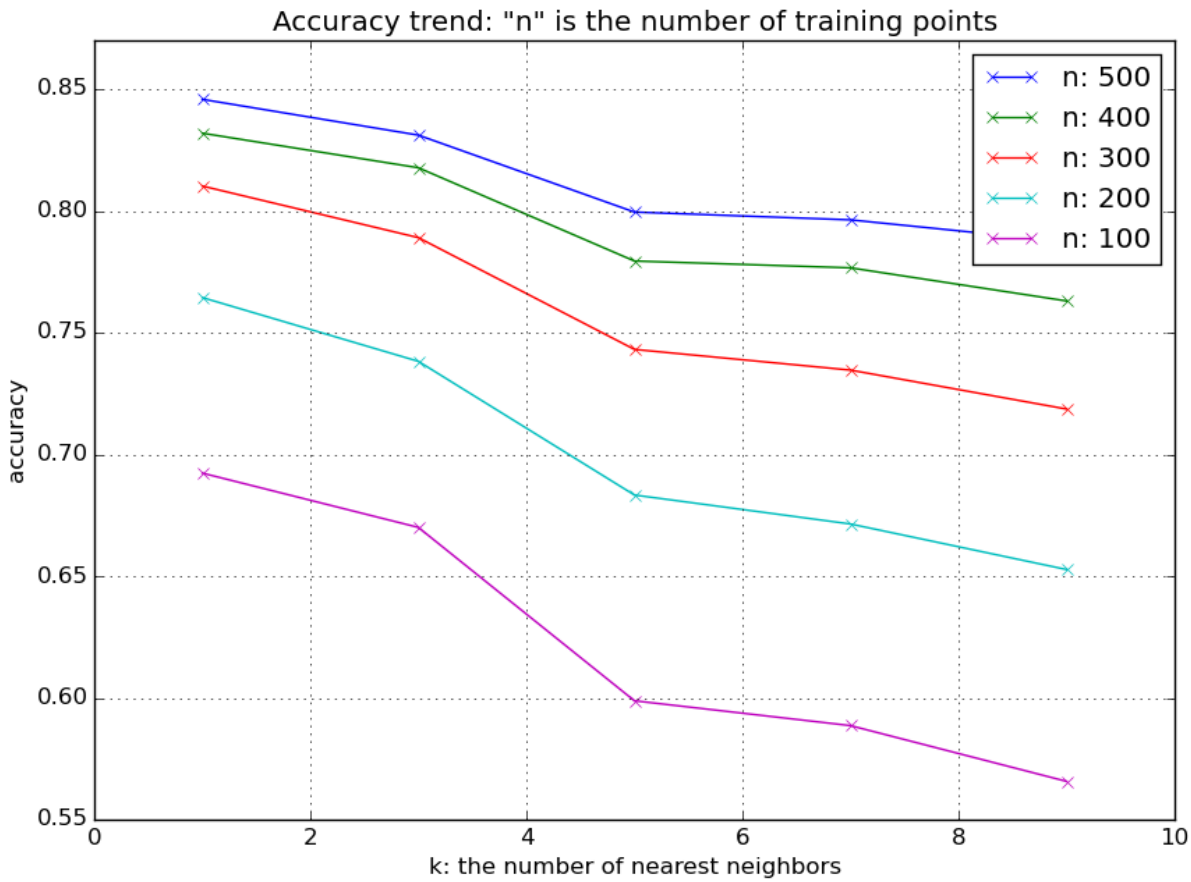
Subject: Homework 1, KNN

Analysis 1. What is the role of the number of training points to accuracy?



For analysis, I used the following data set.

n = [100, 200, 300, 400, 500]
k = [1, 3, 5, 7, 9]

With this data set, KNN implementation showed that higher number of training points makes higher accuracy. It means that the number of training data is important to accuracy.

Analysis 2. What is the role of k to accuracy?
In this case, higher number of nearest neighbors negatively affects accuracy.

Analysis 3. What numbers get confused with each other most easily?
9 get confused with 4 most easily.