

Project 04

I. Classifier Design

1. Split the N data points into the training set and testing set.
2. Use the KNN classifier provide in sklearn and fit it and the training set.

II. Choose K

1. Use the fitted KNN classifier on the testing set and calculate the mean accuracy on the given test data and labels.
2. According to our experiences, we choose K in the range of 1 to $2\sqrt{N}$.
3. Choose K with the best score on the testing set.

III. Table



