

# Introduction

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KNN is a non parametric lazy learning algorithm. It does not make any assumptions on the underlying data distribution. This is lazy algorithm because it does not use the training data points to do any generalization and stores all training data points and their labels in memory, and predict the class for a new data point based on its similarity to the nearest k training data.

The stored training data points can be considers as parameters of KNN model.

Steps:

1. Select the k nearest data points from the training set.
2. Consider the labels of these k-nearest data point and assign the class to the new point based on majority vote.

