Programming Assignment-III

Computer Vision-CAP 5415

Question 2: Nearest Neighbor Classification

Accuracy for different K-values

The accuracy was the highest for the k value =1 and it reduces gradually with the increase in k value. As K increases, the KNN fits a smoother curve to the data. This is because a higher value of K reduces the edginess by taking more data into account, thus reducing the overall complexity and flexibility of the model

For this particular dataset, the best accuracy is obtained for low k values.