

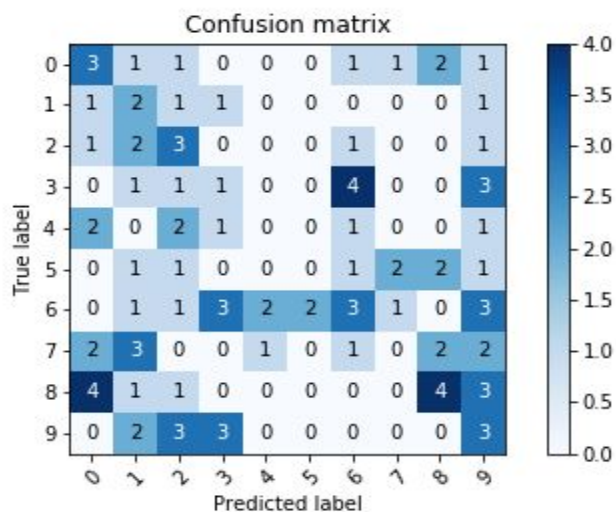
Making K-Nearest Neighbors Classifier:

After Modularizing the algorithm I made 3 helper functions:

- 1, euclideanDistance (finds the euclidean distance between 2 tensors)
- 2, neighbors (finds k nearest neighbors from train data for given test instance)
- 3, response (finds the response based on majority votes from neighbors)

Then I calculated accuracy between predicted labels and original labels using scikit-learn accuracy metric

Then I plotted **Confusion matrix** using the scikit-learn library.



Confusion Matrix for CIFAR 10 Dataset

Github link of assignment is <https://github.com/prashanthkomuravelli/DLAssignment1>