Class notes CS231

Lecture 2

Classification,

K-nearest neighbours

L1 distance

Nearest neighbor problem: solution : k nearest neighbours (majority vote)

L2 distance

Choice of k and l1/l2 are the hyperparameters

These hyperparameters cannot be leanrt, but changed by the testers

Cross-validation: good way to identify hyperparameters

Linear classification

Learn one template for a category,

Drawback: limited by one template

Lecture 3

Loss function : give how bad the prediction is comparing to the correct label

Aim: find w that minimizes the L