HW3 Report

Gong Lixue

November 5, 2017

1 Neural Networks

The implementation of feedforward and backpropagation process is shown in code folder. At the end of training iterations, loss = 1.717e - 01, accuracy = 0.9400, which is not the optimal actually. And for testing, loss = 2.522e - 01, and accuracy = 0.9230.

2 K-Neareast Neighbor

(a) boundary figures is shown below:

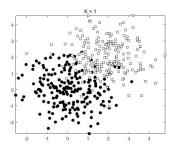


Figure 1: K = 1

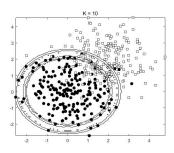


Figure 2: K = 10

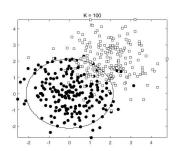


Figure 3: K = 100