Lab Report

Author: 刘佳隆

Student ID: 518010910009

Logistic Regression

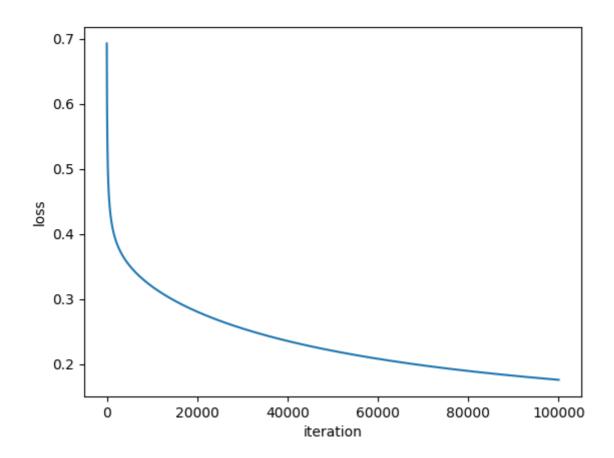
Parameter Settings

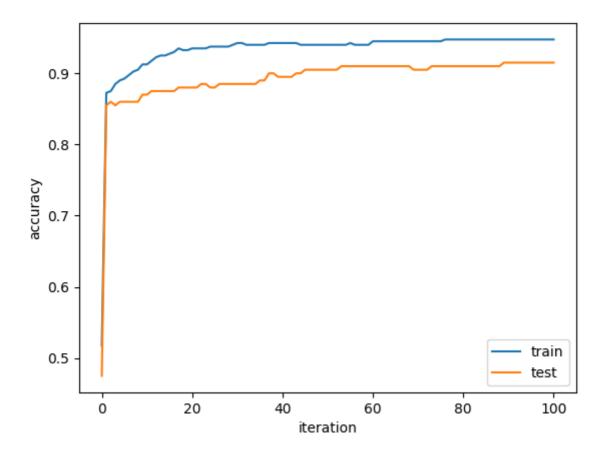
• Learning rate: 0.0001

• Iteration times: 100000 (In used)

• Convergence condition: 0.00001 (Not used)

Result





• Testing accuracy: 0.915

• Training accuracy: 0.9475

• Training mean loss: 0.1755900108060871

• Training time: 64.88919115066528 seconds

Support Vector Machine

Parameter Settings

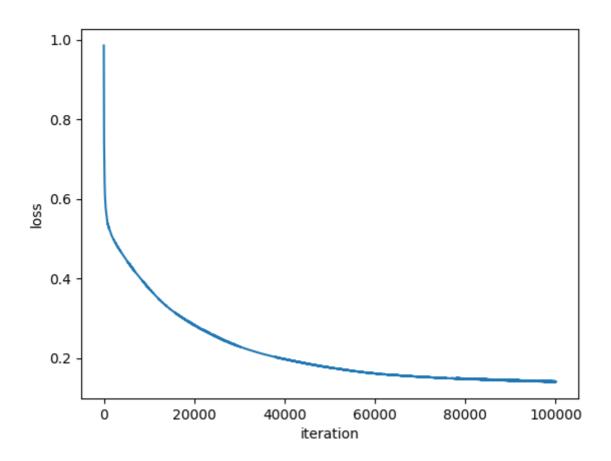
• Learning rate: 0.00005

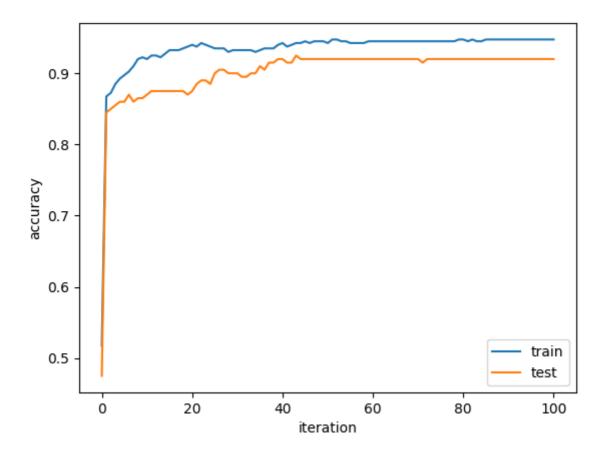
• Lambda: 0.1

• Iteration times: 100000 (In used)

• Convergence condition: 0.00001 (Not used)

Result





• Testing accuracy: 0.92

• Training accuracy: 0.9475

• Training mean loss: 0.14074722254232674

• Training time: 39.148269176483154 seconds

Multi-layer Perceptron

Parameter Settings

• Learning rate: 0.01

• Input layer size: 29

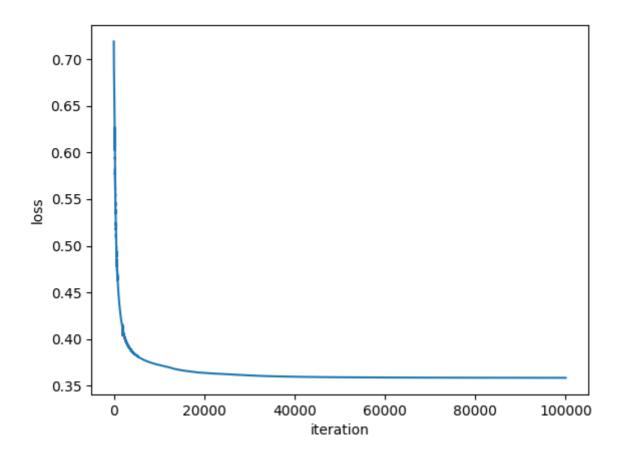
• Hidden layer 1 size: 20

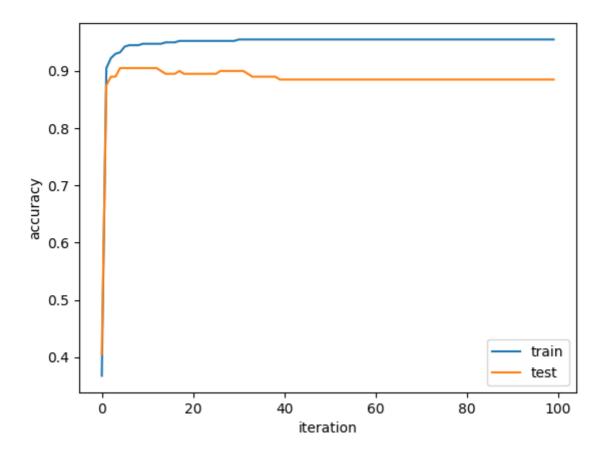
• Hidden layer 2 size: 10

• Output layer size: 2

• Iteration times: 100000

Result





• Testing accuracy: 0.885

- Training accuracy: 0.955
- Training mean loss: 0.3584943413734436
- Training time: 77.96472692489624 seconds