1.XOR weight:

array([[ -1.32376381e-03, 1.50577041e+00, 8.77034882e-01,

-1.23472131e+00],

[ -1.19369063e-02, -1.46015143e+00, 5.67950764e-01,

1.23481052e+00]])

XOR intercepts:

array([ -1.17383042e-02, -3.87532981e-04, -5.68212595e-01,

-2.07206072e-04])

Output:

clf.predict([[1,0],[0,1],[1,1],[0,0]])

out: array([1, 1, 0, 0])

2. Self-choose data

test data is 40% of all data.

[[ 18 2 1]

[ 0 107 0]

[ 2 0 120]]

precision recall f1-score support

B 0.90 0.86 0.88 21

L 0.98 1.00 0.99 107

R 0.99 0.98 0.99 122

avg / total 0.98 0.98 0.98 250