P1 Assignment

iterations = 2000

learning_rate = 0.1

 $hidden_nodes = 5$

output_nodes = 2

Progress: 100.0% ... Training loss: 0.258 ... Validation loss: 0.434

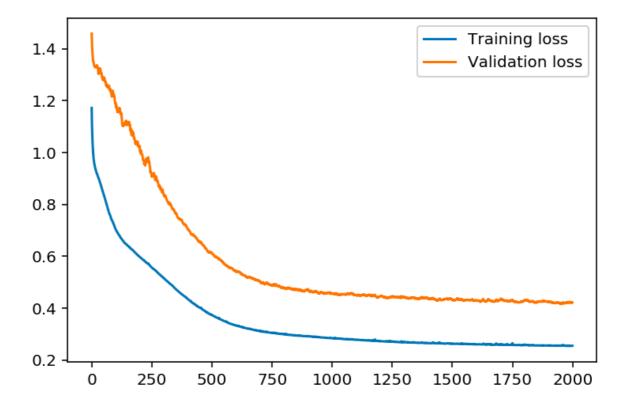
iterations = 2000

learning_rate = 0.1

 $hidden_nodes = 4$

output_nodes = 2

Progress: 100.0% ... Training loss: 0.255 ... Validation loss: 0.422



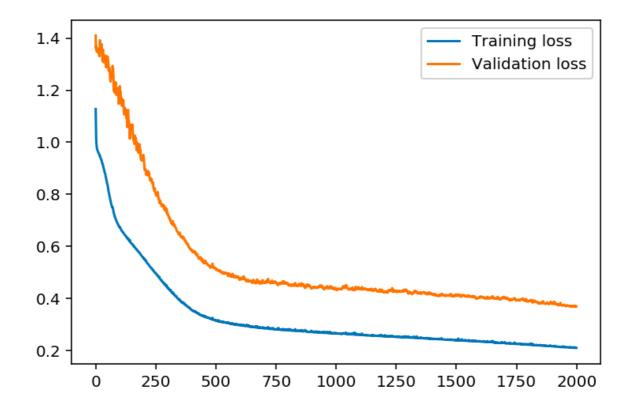
iterations = 2000

learning_rate = 0.1

hidden_nodes = 10

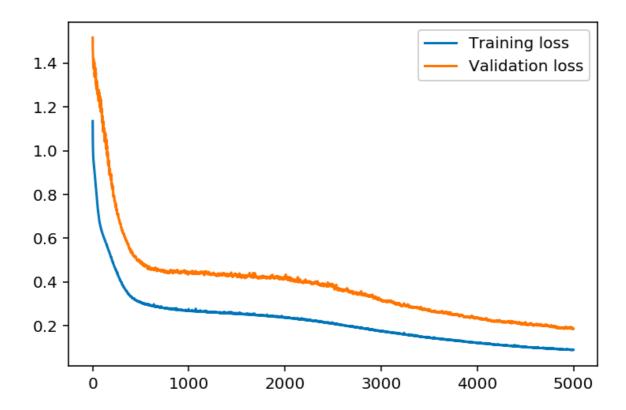
output_nodes = 4

Progress: 100.0% ... Training loss: 0.209 ... Validation loss: 0.368



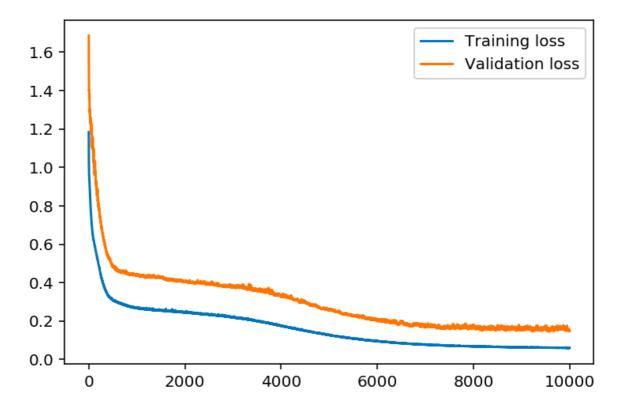
iterations = 5000 learning_rate = 0.1 hidden_nodes = 10 output_nodes = 4

Progress: 100.0% ... Training loss: 0.090 ... Validation loss: 0.186



iterations = 10000 learning_rate = 0.1 hidden_nodes = 10 output_nodes = 4

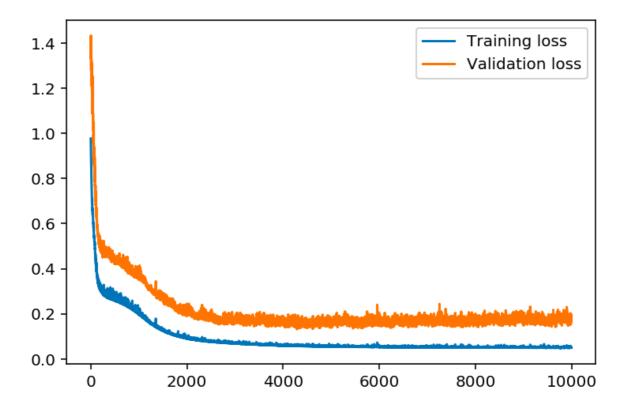
Progress: 100.0% ... Training loss: 0.060 ... Validation loss: 0.147



有反弹趋势,不适合继续加大iteration

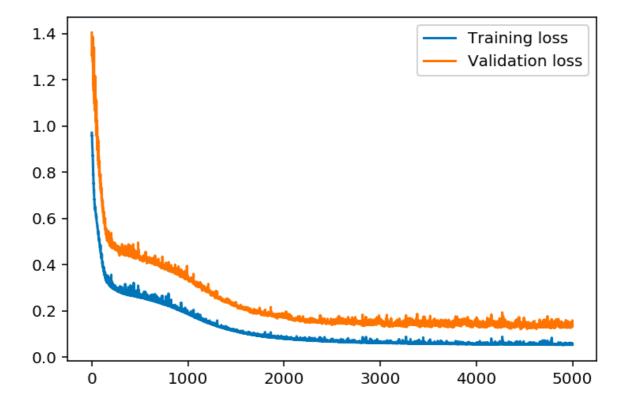
iterations = 10000 learning_rate = 0.2 hidden_nodes = 20 output_nodes = 8

Progress: 100.0% ... Training loss: 0.050 ... Validation loss: 0.194



iterations = 5000 learning_rate = 0.2 hidden_nodes = 20 output_nodes = 8

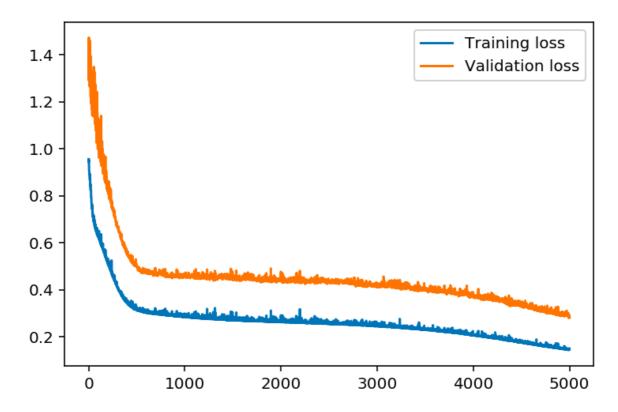
Progress: 100.0% ... Training loss: 0.053 ... Validation loss: 0.133



iterations = 5000

learning_rate = 0.2 hidden_nodes = 20 output_nodes = 1

Progress: 100.0% ... Training loss: 0.149 ... Validation loss: 0.280



iterations = 10000 learning_rate = 0.3 hidden_nodes = 20 output_nodes = 1 Validation loss: 0.147

