

10/17 Quiz 何哲平 111C71008

1. None, Softmax

Quiz - DNN & CNN

您好，何哲平。當您提交此表單時，擁有者將會看到您的名稱和電子郵件地址。

1. What are the last-layer activation functions of neural networks for Regression and Multi-class classification problems? (1 點)

☐ Softmax, None

☐ Sigmoid, ReLU

☐ None, None,

☒ None, Softmax

2. 0.5

2. After 2x2 max pooling, to what ratio has the feature map size been changed compared to the original input size? (2 點)

☒ 0.5


☐ 1

☐ 0.25

☐ 2

3. 2800

4. Cross Entropy

3. Suppose your input is a 400 by 300 color (RGB) image, and you have first convolutional layer with 3x3 filters and 100 channels. How many parameters does this convolutional layer have (including the bias parameters)? (3 點) 

2800

4. What is the function of the TensorFlow code?

`C = -tf.reduce_sum(Y*tf.log(out))` (1 點)




☐ Logistic Regression

☐ Deep ANN

☒ Cross Entropy

☐ Mean Squared-Error

5. 12,000,100

5. Suppose your input is a 200 by 200 color (RGB) image, and you have first fully connected hidden layer with 100 neurons. How many parameters does this hidden layer have (including the bias parameters)? (3 點) 

12000100

提交