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Graded Assignment

Practical Aspects of Deep Learning



Warning:

Course Staff updated this assessment. You'll see the changes when you start or edit.

Assignment details

Due Attempts

May 4, 11:59 PM +07May 4, 11:59 PM +07 3 left (3 attempts every 24 hours)

Submitted

Time limit

March 10, 4:12 PM +07Mar 10, 4:12 PM +0750 minutes per attempt50 min per attempt

Submissions

1 left (1 total within the time limit)

^C Retry

Your grade

To pass you need at least 80%. We keep your highest score.

100%

View submission

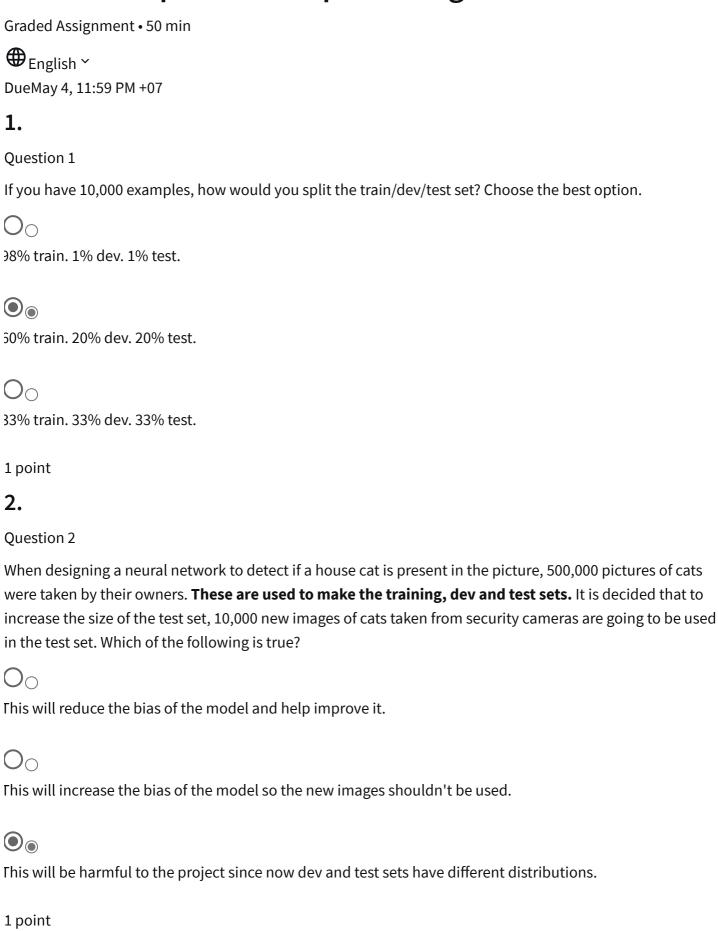
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Practical Aspects of Deep Learning



Question 3

3.

If your Neural Network model seems to have high variance, what of the following would be promising things
to try?
Get more training data
Add regularization
Make the Neural Network deeper
ncrease the number of units in each hidden layer
Get more test data
1 point
4.
Question 4
Your classifier for bananas and oranges gets a training set error of 0.1% and a development set error of 11%.
Which of the following statements are true? (Check all that apply.)
The model is overfitting the development set.
The model is overfitting the training set.
The model has a very high bias.
The model has a high variance.
The modeling a right variance.
1 point
5.

Question 5

Which of the following are regularization techniques?
Dropout.
Gradient Checking.
Neight decay.
\square
ncrease the number of layers of the network.
Therease the number of tayers of the network.
1 point
6.
Question 6
What happens when you increase the regularization hyperparameter lambda?
\bigcirc
Ooubling lambda should roughly result in doubling the weights
Joubing turnbut should roughly result in doubling the weights
Neights are pushed toward becoming smaller (closer to 0)
O_{\bigcirc}
Neights are pushed toward becoming bigger (further from 0)
Gradient descent taking bigger steps with each iteration (proportional to lambda)
1 point
7.
Question 7
Which of the following are true about dropout?
n practice, it eliminates units of each layer with a probability of 1- keep prob.

t helps to reduce the variance of a model.
n practice, it eliminates units of each layer with a probability of keep_prob.
t helps to reduce the bias of a model.
1 point
8.
Question 8
During training a deep neural network that uses the tanh activation function, the value of the gradients is practically zero. Which of the following is most likely to help the vanishing gradient problem?
O_{\circ}
ncrease the number of layers of the network.
\bigcirc
Jse a larger regularization parameter.
ncrease the number of cycles during the training.
nerease the name of eyeles daring the training.
Jse Xavier initialization.
1 point
9.
Question 9
Which of the following actions increase the regularization of a model? (Check all that apply)
ncrease the value of keep_prob in dropout.
\square_{\cap}
Jse Xavier initialization.

ncrease the value of the hyperparameter lambda.
Decrease the value of the hyperparameter lambda.
Decrease the value of keep_prob in dropout.
1 point
10.
Question 10
Why do we normalize the inputs x x?
Oo
t makes the parameter initialization faster
O_{O}
t makes it easier to visualize the data
Oo
Normalization is another word for regularizationIt helps to reduce variance
t makes the cost function faster to optimize
1 point
+6,
0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
Beta