



Deep Learning

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Started on	Thursday, 3 February 2022, 2:03 PM
State	Finished
Completed on	Thursday, 3 February 2022, 2:23 PM
Time taken	19 mins 59 secs
Grade	2.00 out of 15.00 (13%)

Question 1
 Incorrect
 Mark 0.00 out of 2.00
 Flag question

Ground truth (target) labels (1-hot encoded) for a 4-class classification problem for some input data is [0 1 0 0]. Predicted values are [0.2 0.4 0.15 0.25]. What would be categorical cross-entropy loss?


Answer: 

The correct answer is: 1.32


Question 2
 Incorrect
 Mark 0.00 out of 2.00
 Flag question

If value of 4 output neurons before softmax is [2.9 1.5 0.4 0.2] (neuron 1 to neuron 4 in sequence), what would be softmax score of the third neuron (select the closest value)?


Select one:

- ☒ a. 0.04 
☐ b. 0.07
☐ c. 0.06


The correct answer is: 0.06

Question 3
 Incorrect
 Mark 0.00 out of 2.00
 Flag question


Assume spatial extent of the input volume and max-pooling filter to be 599 x 399 and 3 x 3 respectively. Assume stride=2. What would be total number of activation (neurons) in the resultant volume after this pooling operation?

Answer: 


The correct answer is: 59501

Question 4
 Incorrect
 Mark 0.00 out of 2.00
 Flag question


Assume size of the input volume and max-pool filter to be 600 x 400 x 3 and 2 x 2 respectively. How many connections are involved?

Answer: 

The correct answer is: 720000

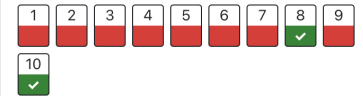
Question 5
 Incorrect
 Mark 0.00 out of 2.00
 Flag question

Assume size of the input volume and subsampling filter (similar to the one used in Lenet 5) to be 600 x 400 x 3 and 2 x 2 respectively. How many parameters are involved?

Answer: 

The correct answer is: 6

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Question 6
Incorrect
Mark 0.00 out of 1.00
Flag question

In transfer learning, if the new dataset is small and similar to original dataset:

Select one:

- ☐ a. we can afford to train a ConvNet from scratch
- ☐ b. we can fine-tune through the full network
- ☒ c. it might work better to train the SVM classifier from activations somewhere earlier in the network ✖
- ☐ d. the best idea might be to train a linear classifier on the CNN codes

The correct answer is: the best idea might be to train a linear classifier on the CNN codes

Question 7
Incorrect
Mark 0.00 out of 1.00
Flag question

In transfer learning, if the new dataset is large and similar to original dataset:

Select one:

- ☐ a. the best idea might be to train a linear classifier on the CNN codes
- ☐ b. we can fine-tune through the full network
- ☐ c. it might work better to train the SVM classifier from activations somewhere earlier in the network
- ☒ d. we can afford to train a ConvNet from scratch ✖

The correct answer is: we can fine-tune through the full network

Question 8
Correct
Mark 1.00 out of 1.00
Flag question

A Deep Learning Model with high bias exhibits

Select one:

- ☐ a. Overfitting
- ☐ b. None of these
- ☐ c. Perfect fit
- ☒ d. Underfitting ✔

The correct answer is: Underfitting

Question 9
Incorrect
Mark 0.00 out of 1.00
Flag question

The popular choice of a weight function in perceptron/multilayer perceptron is

Select one:

- ☐ a. Product function
- ☒ b. Sum of product function ✖
- ☐ c. Sum function
- ☐ d. None of these

The correct answer is: Product function

Question 10
Correct
Mark 1.00 out of 1.00
Flag question

Which function is the best as the activation function if you wish to treat its output as probability values?

Select one:

- ☐ a. linear
- ☐ b. tan-sigmoid
- ☐ c. ReLU
- ☒ d. log-sigmoid ✔

The correct answer is: log-sigmoid

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