

Instructions

Instructions:

1. You have 30 minutes to attempt the quiz
2. Once you start the quiz, you cannot go back and re-attempt it
3. You will not find answers online, so please make sure you are ready for the quiz
4. For Multiple Answer Questions, ALL the answers must be correct to score any point
5. Make sure you understand the *italics* in the notes.

This quiz was locked May 3 at 6:30am.

Attempt History

	Attempt	Time	Score
LATEST	Attempt 1	8 minutes	90 out of 100

Score for this quiz: **90** out of 100
Submitted May 2 at 11:57pm
This attempt took 8 minutes.

Question 1

10 / 10 pts

Image Normalization and Image Equalization are same things

True

False

Correct!

Question 2

5 / 10 pts

Image normalization helps

the model to handle different variations of images

train the network to handle image covariate shift

Correct!

Correct Answer

Question 3

20 / 20 pts

Batch Normalization

solves internal covariate shift

reduces need to get highly tuned hyper-parameters

helps train deeper networks

helps train network faster

Correct!

Correct!

Correct!

Correct!

Question 4

10 / 10 pts

A layer has 32 channels. It will

have 32 means and 32 variance

have 1 mean and 1 variance

Correct!

Question 5

5 / 5 pts

Bias:

gets subtracted out when BN is used

gets trained better with BN is used

Correct!

Question 6

15 / 20 pts

If BN is used, what all are true?

Larger training rate can be used

kernel values would be smaller

gradient flow will not diminish a lot in backprop

per epoch would be slightly slower

Correct!

Correct!

Correct!

Correct Answer

Question 7

10 / 10 pts

If we use regularization (L1/L2):

we can solve over-fitting

kernel values are going to be close to zero or small

it is guaranteed to get higher validation accuracy

it is guaranteed to get higher training accuracy

Correct!

Correct!

Question 8

10 / 10 pts

If we create our data set in such a way that our images are automatically normalized then would we need BN?

Yes, BN has more to do with features than pixel intensities, and image normalization does not guarantee that all features would have normalized values

No, BN would not be required as normalized images would have normalized features

Correct!

Question 9

5 / 5 pts

Later we'd see that we can add as well as concatenate the channels.

Which one is true?

BN should be done after adding or concatenating the channels

BN should be done before adding or concatenating the channels

Doesn't matter!

Correct!