

# Quiz for Multiclass Classifications

Saturday, June 22, 2019

1:01 PM

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## Week 4 Quiz

Quiz, 8 questions

### Question 1

1  
point

#### 1. Question 1

The diagram for traditional programming had Rules and Data In, but what came out?



Answers



Binary



Machine Learning



Bugs

### Question 2

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#### 2. Question 2

Why does the DNN for Fashion MNIST have 10 output neurons?



To make it train 10x faster



To make it classify 10x faster



Purely Arbitrary



The dataset has 10 classes

### Question 3

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#### 3. Question 3

What is a Convolution?

- ☐ A technique to make images smaller
- ☐ A technique to make images larger
- ☒ A technique to extract features from an image
- ☐ A technique to remove unwanted images

#### Question 4

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##### 4. Question 4

Applying Convolutions on top of a DNN will have what impact on training?

- ☐ It will be slower
- ☐ It will be faster
- ☐ There will be no impact
- ☒ It depends on many factors. It might make your training faster or slower, and a poorly designed Convolutional layer may even be less efficient than a plain DNN!

#### Question 5

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##### 5. Question 5

What method on an ImageGenerator is used to normalize the image?

- ☐ normalize
- ☐ flatten
- ☐ resize()
- ☒ rescale

#### Question 6

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##### 6. Question 6

When using Image Augmentation with the ImageDataGenerator, what happens to your raw image data on-disk.

- ☐ A copy will be made, and the copies are augmented
- ☐ A copy will be made, and the originals will be augmented
- ☒ Nothing
- ☐ The images will be edited on disk, so be sure to have a backup

#### Question 7

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### 7. Question 7

Can you use Image augmentation with Transfer Learning?

☐

No - because the layers are frozen so they can't be augmented

☒

Yes. It's pre-trained layers that are frozen. So you can augment your images as you train the bottom layers of the DNN with them

### Question 8

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### 8. Question 8

When training for multiple classes what is the Class Mode for Image Augmentation?

☐

class\_mode='multiple'

☐

class\_mode='non\_binary'

☒

class\_mode='categorical'

☐

class\_mode='all'