Week 4 Quiz

LATEST SUBMISSION GRADE

100%

1.
Question 1
The diagram for traditional programming had Rules and Data In, but what came out?

1 / 1 point

Answers

Binary

Machine Learning

Bugs

Correct

2.
Question 2
Why does the DNN for Fashion MNIST have 10 output neurons?

1 / 1 point

To make it train 10x faster

To make it classify 10x faster

Purely Arbitrary

The dataset has 10 classes

Correct

3.
Question 3
What is a Convolution?

1 / 1 point

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

Correct

4.
Question 4
Applying Convolutions on top of a DNN will have what impact on training?

1 / 1 point

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!

Correct

5.
Question 5
What method on an ImageGenerator is used to normalize the image?

1 / 1 point

normalize

flatten

rezize()

rescale

Correct

6.
Question 6
When using Image Augmentation with the ImageDataGenerator, what happens to your raw image data on-disk.

1 / 1 point

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

Correct

7.
Question 7
Can you use Image augmentation with Transfer Learning?

1 / 1 point

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

Correct

8.

Question 8

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

1 / 1 point

class_mode='multiple'

class_mode='non_binary'

class_mode='categorical'

class_mode='all'

Correct