**Week 4 Quiz**

**LATEST SUBMISSION GRADE**

100%

1.

Question 1

Using Image Generator, how do you label images?

**1 / 1 point**



You have to manually do it



It’s based on the directory the image is contained in



TensorFlow figures it out from the contents



It’s based on the file name

**Correct**

2.

Question 2

What method on the Image Generator is used to normalize the image?

**1 / 1 point**



rescale



Rescale\_image



normalize\_image



normalize

**Correct**

3.

Question 3

How did we specify the training size for the images?

**1 / 1 point**



The training\_size parameter on the validation generator



The target\_size parameter on the training generator



The training\_size parameter on the training generator



The target\_size parameter on the validation generator

**Correct**

4.

Question 4

When we specify the input\_shape to be (300, 300, 3), what does that mean?

**1 / 1 point**



There will be 300 horses and 300 humans, loaded in batches of 3



Every Image will be 300x300 pixels, with 3 bytes to define color



There will be 300 images, each size 300, loaded in batches of 3



Every Image will be 300x300 pixels, and there should be 3 Convolutional Layers

**Correct**

5.

Question 5

If your training data is close to 1.000 accuracy, but your validation data isn’t, what’s the risk here?

**1 / 1 point**



You’re overfitting on your validation data



You’re overfitting on your training data



You’re underfitting on your validation data



No risk, that’s a great result

**Correct**

6.

Question 6

Convolutional Neural Networks are better for classifying images like horses and humans because:

**1 / 1 point**



In these images, the features may be in different parts of the frame



There’s a wide variety of horses



There’s a wide variety of humans



All of the above

**Correct**

7.

Question 7

After reducing the size of the images, the training results were different. Why?

**1 / 1 point**



We removed some convolutions to handle the smaller images



The training was faster



There was less information in the images



There was more condensed information in the images

**Correct**

<https://www.youtube.com/watch?v=NlpS-DhayQA>

<https://gombru.github.io/2018/05/23/cross_entropy_loss/>

<http://www.cs.toronto.edu/~tijmen/csc321/slides/lecture_slides_lec6.pdf>

<https://www.youtube.com/watch?v=eqEc66RFY0I&t=6s>

<https://colab.research.google.com/github/lmoroney/dlaicourse/blob/master/Course%201%20-%20Part%208%20-%20Lesson%202%20-%20Notebook.ipynb>

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