

Week 1 Quiz

LATEST SUBMISSION GRADE

100%

1.

Question 1

What does flow_from_directory give you on the ImageGenerator?

1 / 1 point



The ability to easily load images for training



The ability to pick the size of training images



The ability to automatically label images based on their directory name



All of the above

Correct

2.

Question 2

If my Image is sized 150x150, and I pass a 3x3 Convolution over it, what size is the resulting image?

1 / 1 point



150x150



148x148



450x450



153x153

Correct

3.

Question 3

If my data is sized 150x150, and I use Pooling of size 2x2, what size will the resulting image be?

1 / 1 point



75x75



300x300



149x149



148x148

Correct

4.

Question 4

If I want to view the history of my training, how can I access it?

1 / 1 point



Pass the parameter 'history=true' to the model.fit



Create a variable 'history' and assign it to the return of model.fit or model.fit_generator



Download the model and inspect it



Use a model.fit_generator

Correct

5.

Question 5

What's the name of the API that allows you to inspect the impact of convolutions on the images?

1 / 1 point



The model.convolutions API



The model.pools API



The model.images API



The model.layers API

Correct

6.

Question 6

When exploring the graphs, the loss levelled out at about .75 after 2 epochs, but the accuracy climbed close to 1.0 after 15 epochs. What's the significance of this?

1 / 1 point



There was no point training after 2 epochs, as we overfit to the validation data



There was no point training after 2 epochs, as we overfit to the training data



A bigger training set would give us better validation accuracy



A bigger validation set would give us better training accuracy

Correct

7.

Question 7

Why is the validation accuracy a better indicator of model performance than training accuracy?

1 / 1 point



It isn't, they're equally valuable



There's no relationship between them



The validation accuracy is based on images that the model hasn't been trained with, and thus a better indicator of how the model will perform with new images.



The validation dataset is smaller, and thus less accurate at measuring accuracy, so its performance isn't as important

Correct

8.

Question 8

Why is overfitting more likely to occur on smaller datasets?

1 / 1 point



Because in a smaller dataset, your validation data is more likely to look like your training data



Because there isn't enough data to activate all the convolutions or neurons



Because with less data, the training will take place more quickly, and some features may be missed



Because there's less likelihood of all possible features being encountered in the training process.

Correct