Congratulations! You passed!

TO PASS 80% or higher

Keep Learning

GRADE
100%

Week 1 Quiz

LATEST SUBMISSION GRADE
100%

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
- [x] All of the above

Correct

2. If my Image is sized 150x150, and I pass a 3x3 Convolution over it, what size is the resulting image? 1 / 1 point

- 450x450
- 153x153
- [x] 148x148
- 150x150

Correct

3. If my data is sized 150x150, and I use Pooling of size 2x2, what size will the resulting image be? 1 / 1 point

- 148x148
- 149x149
- [x] 75x75
- 300x300

Correct

4. If I want to view the history of my training, how can I access it? 1 / 1 point

- Download the model and inspect it
- Pass the parameter 'history=true' to the model.fit
- [x] Create a variable 'history' and assign it to the return of model.fit or model.fit_generator
- Use a model.fit_generator

Correct

5. What's the name of the API that allows you to inspect the impact of convolutions on the images? 1 / 1 point

- [x] The model.layers API
- The model.images API
- The model.pools API
- The model.convolutions API

Correct

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

Correct