Week 1 Quiz

Quiz, 8 questions

7/8 points (87.50%)

Congratulations! You passed!

Next Item

1 / 1 point

1.
What does flow_from_directory give you on the ImageGenerator?

- 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

1 / 1 point

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

- 148x148

Correct

- 150x150
- 153x153
- 450x450

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1 / 1 point

3.

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

- [x] 75x75

Correct

- [ ] 149x149
- [ ] 148x148
- [ ] 300x300

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1 / 1 point

4.

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

- [ ] Use a model.fit_generator
- [ ] 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

Correct

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1 / 1 point

5.

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

- [ ] The model.images API
- [ ] The model.convolutions API

The model.pools API

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The model.layers API

Correct

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0 / 1 point

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?

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

This should not be selected

A bigger validation set would give us better training accuracy

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1 / 1 point

7.
Why is the validation accuracy a better indicator of model performance than training accuracy?

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.

Correct

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

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1 / 1 point

8.

Why is overfitting more likely to occur on smaller datasets?

- 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