Week 1 Quiz

Quiz, 8 questions

8/8 points (100%)

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

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1 / 1 point

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

- 153x153
- 450x450
- 148x148

Correct

- 150x150

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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?

- 149x149
- 300x300
- 148x148

Correct

8/8 points (100%)

1 / 1 point

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

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

Correct

- [ ] Pass the parameter 'history=true' to the model.fit
- [ ] Download the model and inspect it
- [ ] Use a model.fit_generator

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

Correct

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

1 / 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
- [x] There was no point training after 2 epochs, as we overfit to the training data

Correct

- [ ] A bigger training set would give us better validation accuracy
- [ ] 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

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