Congratulations! You passed!

O The model.images API

Grade received 87.50% To pass 80% or higher

Go to next item

| W | /eek 1 Quiz | |
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| La | atest Submission Grade 87.5% | |
| 1. | What does flow_from_directory give you on the ImageDataGenerator? | 1 / 1 point |
| | The ability to easily load images for training | |
| | The ability to pick the size of training images | |
| | O The ability to automatically label images based on their directory name | |
| | All of the above | |
| | Correct That's right! The flow_from_directory method takes the path to a directory & generates batches of augmented data. | |
| 2. | If my Image is sized 150x150, and I pass a 3x3 Convolution over it, what size is the resulting image? 148x148 | 1/1 point |
| | Correct Nailed it! Applying a 3x3 convolution would result in a 148x148 image. | |
| | | |
| 3. | If my data is sized 150x150, and I use Pooling of size 2x2, what size will the resulting image be? | 1 / 1 point |
| | O 300x300 | |
| | O 148x148 | |
| | | |
| | O 149x149 | |
| | ✓ Correct Nailed it! Applying 2x2 pooling would result in a 75x75 image. | |
| | | |
| | Use a model.fit_generator | |
| | Create a variable 'history' and assign it to the return of model.fit or model.fit_generator | |
| | O Download the model and inspect it | |
| | Correct Exactly! The History.history attribute is a record of training loss values and metrics values at successive epochs. | |
| | | |
| 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.layers API | |
| | The model.convolutions API | |
| | ○ The model,pools API | |

| | ○ The model.pools API | |
|----|---|-------------|
| | The model.images 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 | |
| | 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 Correct! Those values indicate overfitting to the training data. | |
| | - | |
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| | ○ Correct Correct! Those values indicate overfitting to the training data. | |
| | | |
| 7. | Why is the validation accuracy a better indicator of model performance than training accuracy? | 1/1 point |
| | O 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 | |
| | inportant | |
| | ⊘ Correct | |
| | | |
| 8. | Why is overfitting more likely to occur on smaller datasets? | 0 / 1 point |
| | O Because in a smaller dataset, your validation data is more likely to look like your training data | |
| | O 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 | |
| | O Because there's less likelihood of all possible features being encountered in the training process. | |
| | | |
| | | |
| | ⊗ Incorrect Not quite. It has nothing to do with training time. | |