Graded Quiz: Test your Project Understanding

LATEST SUBMISSION GRADE

100%

1. **How many images will this code print out?**

`1 / 1 point`

```
1  fig, axs = plt.subplots(11,2, figsize=(32,32))
2  count = 0
3  for i in os.listdir('./training'):
4      # get the list of images in the particualr class
5      train_class = os.listdir(os.path.join('training',i))
6      #plot 5 images per class
7      for j in range(2):
8          img = os.path.join('training',i,train_class[j])
9
10         img = PIL.Image.open(img)
11         axs[count][j].title.set_text(i)
12         axs[count][j].imshow(img)
13     count += 1
14
15 fig.tight_layout()
```

- ○ 10
- ○ 11
- ○ 20
- ● 22

✓ **Correct**
Correct! It normalizes the pixel values between 0 and 1.

3. **Does ImageDataGenerator flip images by default?**

`1 / 1 point`

- ○ True
- ● False

✓ **Correct**
Correct! Keras ImageDataGenerator does not flip images by default and in-order to flip images, we have to set horizontal_flip equal to True.

4. **After training the model, you observe training accuracy is 95% and the validation accuracy is 70%. Does it mean that the model is under-fitting?**

`1 / 1 point`

- ○ x and output
- ● x and b
- ○ A and b
- ○ output and A

✓ **Correct**
Great Job! Weight and bias are the parameters that can be optimized while training and they play a major role in the performance of the model.

6. **We have trained the model using transfer learning and we want to fine tune the model. In order to fine-tune the model, we have to lower the learning rate. Is it true?**

`1 / 1 point`

- ○ False
- ● True

✓ **Correct**
Correct! we lower the learning rate to fine tune the model. Otherwise it will cause very large gradient updates during training, which cause large changes in your pre-trained features.

7. **Does transfer learning result in poor performance?**

`1 / 1 point`

- ○ True
- ● False

✓ **Correct**
Correct! This is because transfer learning helps in better weight initialization as well as better performance.

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