Quiz for Augmentation-A-technique-avoid-overfitting

Friday, June 21, 2019   12:59 AM

Week 2 Quiz

Quiz, 8 questions

Question 1

1
point
1. Question 1
How do you use Image Augmentation in TensorFLow
☐ **You have to write a plugin to extend tf.layers**
☐ **With the keras.augment API**
✓ **Using parameters to the ImageDataGenerator**
☐ **With the tf.augment API**

Question 2

1
point
2. Question 2
If my training data only has people facing left, but I want to classify people facing right, how would I avoid overfitting?
☐ **Use the 'flip' parameter and set 'horizontal'**
☐ **Use the 'flip_vertical' parameter around the Y axis**
☐ **Use the 'flip' parameter**
✓ **Use the 'horizontal_flip' parameter**

Question 3

1
point
3. Question 3
When training with augmentation, you noticed that the training is a little slower. Why?
☐ **Because the image processing takes cycles**
☐ **Because the training is making more mistakes** ✗
☐ **Because the augmented data is bigger** ✗
Because there is more data to train on ✗

Question 4

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Because the image processing takes cycles

Because the training is making more mistakes ✖

~~Because the augmented data is bigger~~ ✖

Because there is more data to train on ✖

Question 4

1

point

4. Question 4

What does the fill_mode parameter do?

There is no fill_mode parameter

It creates random noise in the image

✓ **It attempts to recreate lost information after a transformation like a shear**

It masks the background of an image

Question 5

1

point

5. Question 5

When using Image Augmentation with the ImageDataGenerator, what happens to your raw image data on-disk.

It gets overwritten, so be sure to make a backup

A copy is made and the augmentation is done on the copy

✓ Nothing, all augmentation is done in-memory

It gets deleted

Question 6

1

point

6. Question 6

How does Image Augmentation help solve overfitting?

It slows down the training process

✓ It manipulates the training set to generate more scenarios for features in the images

It manipulates the validation set to generate more scenarios for features in the images

It automatically fits features to images by finding them through image processing techniques

Question 7

1

point

7. Question 7

When using Image Augmentation my training gets...

Slower

Faster

Stays the Same

Much Faster

point
7. Question 7

☑ Slower
☐ Faster
☐ Stays the Same
☐ Much Faster

Question 8

1
point
8. Question 8

Using Image Augmentation effectively simulates having a larger data set for training.

☐ False
☑ True