

✔ **Congratulations! You passed!**

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1. How do you use Image Augmentation in TensorFlow

1 / 1 point

- ☒ Using parameters to the ImageDataGenerator
- ☐ With the keras.augment API
- ☐ With the tf.augment API
- ☐ You have to write a plugin to extend tf.layers

✔ **Correct**
Correct!

2. If my training data only has people facing left, but I want to classify people facing right, how would I avoid overfitting?

1 / 1 point

- ☒ Use the 'horizontal_flip' parameter
- ☐ Use the 'flip' parameter
- ☐ Use the 'flip' parameter and set 'horizontal'
- ☐ Use the 'flip_vertical' parameter around the Y axis

✔ **Correct**
That's right!

3. After adding data augmentation and using the same batch size and steps per epoch, you noticed that each training epoch became a little slower than when you trained without it. Why?

1 / 1 point

- ☐ Because the training is making more mistakes
- ☐ Because there is more data to train on
- ☒ Because the image preprocessing takes cycles
- ☐ Because the augmented data is bigger

✔ **Correct**
That's right! It will take some time to generate and load the additional images into memory.

4. What does the fill_mode parameter do?

1 / 1 point

- ☐ 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

✔ **Correct**
That's right!

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

1 / 1 point

- ☐ 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

✔ **Correct**
That's right!

6. How does Image Augmentation help solve overfitting?

1 / 1 point

- ☐ 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

✔ **Correct**
That's right!

7. When using Image Augmentation my training gets...

1 / 1 point

- ☒ Slower
- ☐ Faster
- ☐ Stays the Same
- ☐ Much Faster

✔ **Correct**
That's right!

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

1 / 1 point

- ☐ False
- ☒ True



✔ Correct
Exactly!