



Week 2 Quiz

TOTAL POINTS 8

1. How do you use Image Augmentation in TensorFlow

1 point

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

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

1 point

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

3. When training with augmentation, you noticed that the training is a little slower. Why?

1 point

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

4. What does the `fill_mode` parameter do?

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

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

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

6. How does Image Augmentation help solve overfitting?

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

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

1 point

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

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

1 point

- ☐ False
- ☒ True

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