



Your grade: 100%

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## Week 4 Quiz

1.

When using image augmentation with image\_dataset\_from\_directory, what happens to your raw image data on-disk?

1 / 1 point

Assignment details

Due Oct 6, 11:59 PM CST Unlimited Attempts

Submitted Sep 12, 9:32 AM CST

Try again

A copy will be made, and the copies are augmented

A copy will be made, and the originals will be augmented

Nothing happens

The images will be edited on disk, so be sure to have a backup

Correct

Your grade

That is in fact true. Nothing happens.

To pass you need at least 80%. We keep your highest score.

View submission

See feedback

2.

What layer is used to convert image pixel values from the range [0, 255] to [0, 1]?

1 / 1 point

Conversion

Like

Dislike

Report an issue

Translation

Resize

Rescaling

Correct

That's right!

3.

The diagram for traditional programming had Rules and Data in, but what came out?

1 / 1 point

Answers

Binary

Machine Learning

Bugs

Correct

Exactly! Machine learning algorithms build a model based on sample data, known as "training data", in order to make predictions or decisions without being explicitly programmed to do so.

4.

When training for multiple classes, what is the parameter you specify in image\_dataset\_from\_directory if you like to label them for categorical\_crossentropy loss?

1 / 1 point

label\_mode='int'

class\_mode='int'

label\_mode='categorical'

class\_mode='categorical'

Correct

Nicely done!

5.

Can you use image augmentation with transfer learning?

1 / 1 point

No - because the layers are frozen so they can't be augmented

Yes. It's pre-trained layers that are frozen. So you can augment your images as you train the trainable layers of the DNN with them

Correct

You've got it!

6.

Applying convolutions on top of a DNN will have what impact on training?

1 / 1 point

It will be slower

It will be faster

There will be no impact

It depends on many factors. It might make your training faster or slower, and a poorly designed convolutional layer may even be less efficient than a plain DNN!

Correct

Exactly!