## 16/5/25, 11:12 a.m. Week 4 Quiz

4	E Back Graded Assignment - 30 min	
	⊕ English ∨ Due May 18, 10:59 PM CST	
v	our grade: 100%	
	ur latest: 100% • Your highest: 100%  pass you need at least 80%. We keep your highest score.	
	Next item →	
1.	When using image augmentation with image_dataset_from_directory, what happens to your raw image data on-disk?	1/1 point
	A copy will be made, and the copies are augmented	
	A copy will be made, and the originals will be augmented	
	Nothing	
	The images will be edited on disk, so be sure to have a backup	
	⊙ Correct	
	That is, in fact, true. Nothing happens.	
2.	What layer is used to convert image pixel values from the range [0, 255] to [0, 1]?	1/1 point
	Ocnversion	
	O Translation	
	Resize	
	© Rescaling	
	⊙ Correct	
	Correct That's right!	
3.	The diagram for traditional programming had Rules and Data in, but what came out?	1/1 point
	Answers	
	O Binary	
	O Machine Learning	
	O 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.	
	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
4.		1/1 point
	O 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	
	Correct You've got it!	
6.	Applying convolutions on top of a DNN will have what impact on training?	1/1 point
	O It will be slower	
	O 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!	
7.	What is a convolution?	1/1 point
	A technique to make images smaller	
	A technique to make images smaller  A technique to make images larger	
	A technique to make images larger      A technique to extract features from an image	
	A technique to exract reatures from an image  Attendique to remove unwanted images	
	⊙ Correct	
8.	Why does the DNN for Fashion MNIST have 10 output neurons?	1/1 point
٠.	O To make it train 10x faster	-1 - kanna
	O To make it train 10x faster  O To make it classify 10x faster	
	O Purely arbitrary	
	The dataset has 10 classes	
	(2) Correct	