Week 3 Quiz

LATEST SUBMISSION GRADE 100%

If I put a dropout parameter of 0.2, how many nodes will I lose?	1 / 1 point
20% of them	
2% of them	
20% of the untrained ones	
2% of the untrained ones	
✓ Correct	
2. Why is transfer learning useful?	1 / 1 point
Because I can use all of the data from the original training set	
Because I can use all of the data from the original validation set	
Because I can use the features that were learned from large datasets that I may not have access to	
O Because I can use the validation metadata from large datasets that I may not have access to	
✓ Correct	
3. How did you lock or freeze a layer from retraining?	1/1 point
tf.freeze(layer)	
tf.layer.frozen = true	
tf.layer.locked = true	
layer.trainable = false	
✓ Correct	
4. How do you change the number of classes the model can classify when using transfer learning? (i.e. the original m	nodel 1/1 point
handled 1000 classes, but yours handles just 2)	
O Ignore all the classes above yours (i.e. Numbers 2 onwards if I'm just classing 2)	
Use all classes but set their weights to 0	
 When you add your DNN at the bottom of the network, you specify your output layer with the number of clas you want 	ses
O Use dropouts to eliminate the unwanted classes	
✓ Correct	
Can you use Image Augmentation with Transfer Learning Models?	1/1 point
No, because you are using pre-set features	
Yes, because you are adding new layers at the bottom of the network, and you can use image augmentation of training these	vhen
✓ Correct	

6. Why do dropouts help avoid overfitting?	1/1 point
Because neighbor neurons can have similar weights, and thus can skew the final training	
Having less neurons speeds up training	
✓ Correct	
7. What would the symptom of a Dropout rate being set too high?	1/1 point
The network would lose specialization to the effect that it would be inefficient or ineffective at learning, d accuracy down	riving
O Training time would increase due to the extra calculations being required for higher dropout	
✓ Correct	
8. Which is the correct line of code for adding Dropout of 20% of neurons using TensorFlow	1/1 point
tf.keras.layers.Dropout(20)	
Otf.keras.layers.DropoutNeurons(20),	
(in tr.keras.layers.Dropout(0.2),	
tf.keras.layers.DropoutNeurons(0.2),	
✓ Correct	