Week 3 Quiz

Quiz, 8 questions

8/8 points (100%)

Congratulations! You passed!

Next Item

1 / 1 point

1.
If I put a dropout parameter of 0.2, how many nodes will I lose?

- [x] 20% of them

Correct

- [ ] 2% of them
- [ ] 20% of the untrained ones
- [ ] 2% of the untrained ones

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1 / 1 point

2.
Why is transfer learning useful?

- [ ] 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
- [x] Because I can use the features that were learned from large datasets that I may not have access to

Correct

- [ ] Because I can use the validation metadata from large datasets that I may not have access to

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1 / 1

point

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How did you lock or freeze a layer from retraining?

- tf.freeze(layer)
- tf.layer.frozen = true
- tf.layer.locked = true
- layer.trainable = false

Correct

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1 / 1 point

4.

How do you change the number of classes the model can classify when using transfer learning? (i.e. the original model handled 1000 classes, but yours handles just 2)

- 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 classes you want

Correct

- Use dropouts to eliminate the unwanted classes

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1 / 1 point

5.

Can you use Image Augmentation with Transfer Learning Models?

- 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 when training these

Correct

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1 / 1 point

6.
Why do dropouts help avoid overfitting?

- [x] Because neighbor neurons can have similar weights, and thus can skew the final training

Correct

- [ ] Having less neurons speeds up training

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1 / 1 point

7.
What would the symptom of a Dropout rate being set too high?

- [x] The network would lose specialization to the effect that it would be inefficient or ineffective at learning, driving accuracy down

Correct

- [ ] Training time would increase due to the extra calculations being required for higher dropout

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1 / 1 point

8.
Which is the correct line of code for adding Dropout of 20% of neurons using TensorFlow

- [ ] tf.keras.layers.Dropout(20)
- [ ] tf.keras.layers.DropoutNeurons(20),
- [x] tf.keras.layers.Dropout(0.2),

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Correct

tf.keras.layers.DropoutNeurons(0.2),