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

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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3.
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

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

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

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Correct

1 / 1 point

6.
Why do dropouts help avoid overfitting?

Because neighbor neurons can have similar weights, and thus can skew the final training

Correct

Having less neurons speeds up training

1 / 1 point

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

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

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),

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tf.keras.layers.Dropout(0.2),

Correct

tf.keras.layers.DropoutNeurons(0.2),