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Grade received 100% To pass 80% or higher

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Week 3 Quiz

Latest Submission Grade 100%

1. What technology is used to deploy addons like TensorFlow Lite to iOS applications?

1 / 1 point

- ☐ Applepods
- ☒ Cocoapods
- ☐ Gradle
- ☐ VSNs

✔ Correct

2. What is the name of the pod that you use to add TF Lite to an iOS app with the Swift language?

1 / 1 point

- ☐ TensorFlowLite
- ☒ TensorFlowLiteSwift
- ☐ TensorFlowSwift
- ☐ LiteSwift

✔ Correct

3. How do you deploy a model to iOS for offline use?

1 / 1 point

- ☐ You download it at runtime
- ☐ You convert it to swift code and use it as an activity
- ☐ You bundle model and interpreter as a resource file
- ☒ You add it as part of the app bundle

✔ Correct

4. How does iOS represent images in memory?

1 / 1 point

- ☒ A CVPixelBuffer
- ☐ An array of bytes
- ☐ Image class
- ☐ An NSPixelArray

✔ Correct

5. How do you do inference with a TF Lite interpreter in Swift?

1 / 1 point

- ☐ Copy values to input tensor, call interpreter.run(), copy outputs to output Tensor
- ☒ Copy values to input tensor, call interpreter.invoke(), copy outputs to output Tensor
- ☐ interpreter.run(input, output)
- ☐ interpreter.invoke(input, output)

✔ Correct

6. How do you specify the number of threads that the interpreter should use?

1 / 1 point

- ☐ Use an InterpreterOptions object and set its useThreads property to true
- ☐ Use an InterpreterOptions object and set its threads property to the desired amount
- ☐ Call the setThreads() method on an InterpreterOptions object and specify the desired amount
- ☒ Use an InterpreterOptions object and set its threadCount property to the desired amount

✓ Correct

7. What format is an image in a CVPixelBuffer?

1 / 1 point

- ☐ RGB_32
- ☐ RGBA_32
- ☒ BGRA_32
- ☐ BGR_32

✓ Correct

8. How can you tell if a model is quantized at runtime?

1 / 1 point

- ☒ Check the inputTensor Data type. If it's uint8, the model is quantized
- ☐ Check the isQuantized property on the input tensor. If it is true, the model is quantized
- ☐ Check the modelFormat data type. If it's uint8, the model is quantized
- ☐ Check the isQuantized property on the interpreter. If it is true, the model is quantized

✓ Correct

9. In what order does the object detection model report the bounding box parameters?

1 / 1 point

- ☒ y, x, height, width
- ☐ y, x, width, height
- ☐ x, y, height, width
- ☐ x, y, width, height

✓ Correct