

Quiz 1

TOTAL POINTS 7

1. What is the name of the API at the heart of TensorFlow.js which allows things like layers to be used?

1 point

- ☐ JS API
- ☐ Core TF API
- ☒ Core API
- ☐ TFJS API

2. How does TensorFlow.js use GPU acceleration in the browser?

1 point

- ☐ It works natively through GPU libraries in TensorFlow
- ☒ You access GPU through WebGL in the browser
- ☐ It doesn't
- ☐ You have to install GPU runtimes for each browser, and explicitly use them

3. How can you use a TPU with TensorFlow.js?

1 point

- ☐ You can't
- ☒ You can use Node.js on GCP and access TPU instances
- ☐ Only using Colab
- ☐ You have to serve your JS from a GCP instance

4. Which of the following lines of code will correctly add a single dense layer containing a single neuron that takes a numeric input to a model using JavaScript?

1 point

- ☐

1

model.add(tf.layers({units: 1, inputShape: [1,1]}))
- ☒

1

model.add(tf.layers.dense({units: 1, inputShape: [1]}));
- ☐

1

model.add(tf.layers.dense({units= 1, inputShape: [1]}));
- ☐

1

2

model.add(tf.layers.dense({units: 1, inputShape:= [1]}));

5. When creating data to input to a model using Python you could use a numpy array. How would you do it in JavaScript?

1 point

- ☐ Use a tensor2d contining a numpyjs array
- ☐ Use a numpyjs array
- ☒ Use a tensor2d containing the data and the shape of the data
- ☐ Use a tensor2d containing the data

6. If I train a model to detect a linear relationship (i.e. Y=2X-1), what line of code would output a prediction from that model for Y where X=10?

1 point

- ☐

1

2

alert(model.predict([10], [1,1]));
- ☐

1

alert(model.predict(10));
- ☒

1

alert(model.predict(tf.tensor2d([10], [1,1])));
- ☐

1

alert(model.predict(tf.tensor2d([10])));

7. When training a model, if I want to log training status at the end of an epoch, what is the name of the callback event you want to capture?

1 point

- ☐ EpochEnd
- ☒ OnEpochEnded
- ☐ OnEpochEnd
- ☐ EpochEnded

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