✅ **Congratulations! You passed!**

Grade received 85.71%   **To pass** 80% or higher

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Quiz 1

Latest Submission Grade 85.71%

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

   1 / 1 point

○ Core TF API

◉ Core API

○ TFJS API

○ JS API

✓ **Correct**

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

   1 / 1 point

○ It works natively through GPU libraries in TensorFlow

○ You have to install GPU runtimes for each browser, and explicitly use them

◉ You access GPU through WebGL in the browser

○ It doesn't

✓ **Correct**

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

   1 / 1 point

○ You can't

○ You have to serve your JS from a GCP instance

◉ You can use Node.js on GCP and access TPU instances

○ Only using Colab

✓ **Correct**

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 / 1 point

○

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

○

```
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]}));
2
```

✓ **Correct**

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 / 1 point

◉ Use a tensor2d containing the data and the shape of the data

○ Use a tensor2d containing the data

○ Use a numpyjs array

○ Use a tensor2d contining a numpyjs array

✓ **Correct**

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 / 1 point

◉

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

○

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

○

```
1    alert(model.predict([10], [1,1]));
2
```

○

```
1    alert(model.predict(10));
```

✓ Correct

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?

0 / 1 point

◉ EpochEnd

○ EpochEnded

○ onEpochEnd

○ OnEpochEnded

⊗ Incorrect