



✓ **Congratulations! You passed!**

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1. What is TensorFlow? (choose all that apply)

1 / 1
point



TensorFlow is an open-source high-performance library for numerical computation that uses directed graphs

Correct



TensorFlow is open source

Correct



TensorFlow is used exclusively to build Machine Learning models

Un-selected is correct



2. True or False: When you run a TensorFlow graph (like $a + b$), you immediately get the output of the graph (the sum of a and b)

1 / 1
point



True - but only if you have tf.eager mode enabled

Correct



False - TensorFlow always builds the graph but does not execute it



3. What do nodes in a TensorFlow graph represent?

1 / 1
point



All of the above



Arrays of data



Mathematical operations

Correct



Machine Learning



4. What is a tensor?

1 / 1
point



A different machine learning model type



A hyperparameter set before model training



A n-dimensional array of data (generalization of a vector)

Correct



5. True or False: You can only run TensorFlow on Google Cloud

1 / 1
point



True



False

Correct



6. The iterative process where a TensorFlow model can crowdsource and combine model feedback from individual users is called what?

1 / 1
point

- ☐ Distributed learning
- ☐ TensorFlow learning
- ☒ Federated learning

Correct



7. What is the high level API that allows for distributed training in TensorFlow?

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point

- ☒ tf.estimator

Correct

- ☐ tf.losses
- ☐ tf.dist_train
- ☐ tf.evaluate



8. How do you run a TensorFlow graph?

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point

- ☐ Call execute() on a tf.Session
- ☐ TensorFlow graphs are ran automatically
- ☒ Call run() on a tf.Session

Correct



9. Why would you call tf.summary.FileWriter?

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point

- ☐ To output the graph in a human-readable format for sharing
- ☒ To output statistics and visualize them in a tool like TensorBoard

Correct

- ☐ To write out the trained ML model output into a file for distribution



10. What is the shape of tf.constant([2, 3, 5])?

1 / 1
point

- ☐ It's a scalar so it would be (3)
- ☐ It's a scalar so it would be ()
- ☒ It's a vector so it would be (3)

Correct

Would be (3) since it is one dimensional and 3 columns long.

- ☐ It's a vector so it would be (1,3)