

Core TensorFlow

Quiz, 10 questions

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

- ☐ TensorFlow is an open-source high-performance library for numerical computation that uses directed graphs
- ☐ TensorFlow is open source
- ☐ TensorFlow is used exclusively to build Machine Learning models

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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)

- ☒ True - but only if you have tf.eager mode enabled
- ☐ False - TensorFlow always builds the graph but does not execute it

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3. What do nodes in a TensorFlow graph represent?

- ☐ All of the above

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3. What do nodes in a TensorFlow graph represent?

- ☐ All of the above
- ☐ Machine Learning
- ☒ Mathematical operations
- ☐ Arrays of data

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4. What is a tensor?

- ☐ A hyperparameter set before model training
- ☐ A different machine learning model type
- ☒ A n-dimensional array of data (generalization of a vector)

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



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

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



True



False

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



Federated learning



TensorFlow learning



Distributed learning

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



tf.estimator



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

- ☐ tf.estimator
- ☐ tf.losses
- ☐ tf.dist_train
- ☒ tf.evaluate

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8. How do you run a TensorFlow graph?

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

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

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☐ Call run() on a tf.Session

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

- ☐ To write out the trained ML model output into a file for distribution
- ☒ To output statistics and visualize them in a tool like TensorBoard
- ☐ To output the graph in a human-readable format for sharing

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

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