

✔ **Congratulations! You passed!**

Grade received **100%** To pass 80% or higher

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## Week 1 Quiz

Latest Submission Grade 100%

1. What's the name of the package you install to get TensorFlow Serving?

1 / 1 point

- ☒ tensorflow-model-server
- ☐ tf-serving
- ☐ model-server
- ☐ tensorflow-serving

✔ **Correct**

2. What Unix command is used to start TensorFlow serving in a way that will run it and continue running even if the session is disconnected?

1 / 1 point

- ☒ nohup
- ☐ shellhup
- ☐ shell
- ☐ hup

✔ **Correct**

3. What's the name of the production-scale ML platform for TensorFlow?

1 / 1 point

- ☐ XLA
- ☐ TF-E
- ☒ TFX
- ☐ TFAX

✔ **Correct**

4. What advantages do you get by running inference on a server instead of distributing the model to all your clients?

1 / 1 point

- ☐ Everybody will use the same model version
- ☐ You can update your model transparently
- ☐ You can scale your model infrastructure for speed and/or volume
- ☒ All of the above

✔ **Correct**

5. How do you prepare your model for serving?

1 / 1 point

- ☐ Train it on the server and it will serve automatically
- ☒ Use TensorFlow SavedModel to save it, and then deploy it to the server
- ☐ Give your users the colab URL
- ☐ Train it and convert it to TensorFlow lite and copy that to the server

✔ **Correct**

6. If you want to inspect the inputs and outputs for your model, what command do you use?

1 / 1 point

- ☐ inspect\_saved\_model
- ☐ inspect\_model
- ☒ saved\_model\_cli

☐ Cli\_saved\_model

✓ Correct

7. If you want to start the model server on port 8501, what parameter do you use?

1 / 1 point

☐ --rest\_port

☐ --rest\_api

☐ --api\_port

☒ --rest\_api\_port

✓ Correct

8. I want to pass a list of values (i.e. 8, 9, 10) to the server and have it perform inferences on them, what's the correct syntax for this data?

1 / 1 point

☐ [[8] [9] [10]]

☐ [8, 9, 10]

☐ [[8 9 10]]

☒ [[8], [9], [10]]

✓ Correct

9. If I publish V1 a model called 'helloworld' and run it with a REST API on port 8501. What's the URL of the endpoint used to run inference on localhost?

1 / 1 point

☐ http://localhost:8501/1/helloworld:predict

☐ http://localhost:8501/helloworld:predict/v1

☒ http://localhost:8501/v1/models/helloworld:predict

☐ http://localhost:8501/models/v1/helloworld:predict

✓ Correct

10. After running inference using a model hosted on TF Serving, the following is returned. Can you explain what data was sent to the model, and what these return values mean?

1 / 1 point

[ [5.77123615e-07, 2.66907847e-08, 4.7217938e-08, 1.97792871e-09, 5.31984341e-08, 0.00734644197, 3.1462946e-07, 0.0439051725, 0.000500570168, 0.948246837],

[0.00227244, 6.12080342e-09, 0.967876315, 3.0579281e-06, 0.0183339939, 3.18483538e-11, 0.011510049, 1.38639566e-14, 4.19033222e-06, 4.40264526e-11],

[1.45221502e-05, 0.999841571, 3.96758715e-08, 0.000131023204, 1.22008023e-05, 1.18227668e-08, 5.97860179e-08, 1.31281848e-08, 5.49047854e-07, 2.97885189e-10] ]

☒ You passed three items to a model that recognizes 10 classes, and it returned the probabilities for each item in each class

☐ Not possible to tell

☐ You passed 30 items to the model, and it returned the likelihood that it matches what you need

☐ You passed an item to a model that recognizes 30 classes and it returned the probabilities for each item that it recognized

✓ Correct