

✓ Congratulations! You passed!

TO PASS 80% or higher

✓ Correct

TPU for TPU strategy)

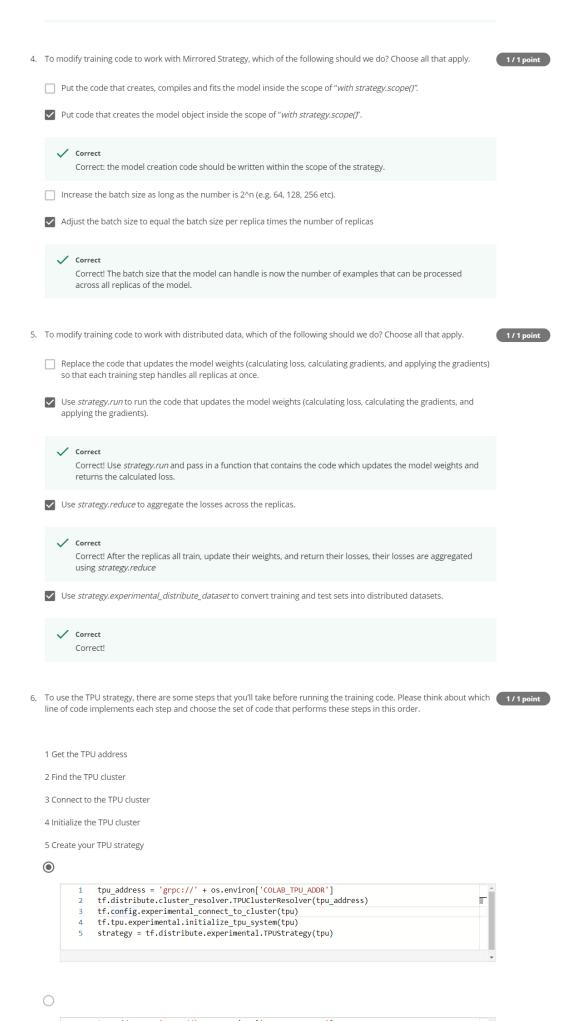
Keep Learning

GRADE 100%

Distributed Strategy

LATEST SUBMISSION GRADE 100% 1. Which of the following is *true* about training your model using data parallelism technique? Check all that are true. 1/1 point All of the data is on 1 master machine, and copies of the data are then distributed to machines having different model architectures based on their capacity of processing the data. ☐ The same model architectures are used on different machines, and each machine processes the entire data set. Weights from different machines are aggregated and updated into a single model. Correct! All the learnings from training on multiple machines should be used to update a single model. The full data set is split up and subsets of the data are stored across multiple machines ✓ Correct Correct! Data parallelism is meant to improve efficiency by not having to store or process all of the data on the same machine. 2. In TensorFlow version 2, tf.distribute.Strategy class supports _____. Check all that apply. Graph Mode ✓ Correct Correct! Eager Mode ✓ Correct Correct! 3. Which of the following are true of both MirroredStrategy and TPU Strategy? Check all that are true. ✓ Uses a single machine Correct! Both of these strategies use a single machine. ✓ Variables are synchronized (mirrored) across each replica of the model Correct! Variables are mirrored across the copies of the model. Uses multiple machines The same model is replicated on each core.

Correct! Both of these strategies use multiple cores on the same machine (either GPU for Mirrored Strategy or



```
tf.config.experimental_connect_to_cluster(tpu)
        4 tf.tpu.experimental.initialize_tpu_system(tpu)
           strategy = tf.distribute.experimental.MirroredStrategy(tpu)
0
            strategy = tf.distribute.experimental.TPUStrategy(tpu)
            tpu_address = 'grpc://' + os.environ['COLAB_TPU_ADDR']
            {\tt tf.distribute.cluster\_resolver.TPUClusterResolver(tpu\_address)}
            tf.config.experimental_connect_to_cluster(tpu)
            tf.tpu.experimental.initialize_tpu_system(tpu)
0
            tpu_address = 'grpc://' + os.environ['COLAB_TPU_ADDR']
            {\tt tf.config.experimental\_connect\_to\_cluster(tpu)}
            tf.distribute.cluster_resolver.TPUClusterResolver(tpu_address)
        4 tf.tpu.experimental.initialize_tpu_system(tpu)
            strategy = tf.distribute.experimental.TPUStrategy(tpu)
   Correct
       Correct!
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tf.distribute.cluster_resolver.TPUClusterResolver(tpu_address)