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Question No. 1

You are the Director of Data Science at a large company, and your Data Science team has recently begun using the Kubeflow Pipelines SDK to orchestrate their training pipelines. Your team is struggling to integrate their custom Python code into the Kubeflow Pipelines SDK. How should you instruct them to proceed in order to quickly integrate their code with the Kubeflow Pipelines SDK?

- **A.** Use the func_to_container_op function to create custom components from the Python code.
- **B.** Use the predefined components available in the Kubeflow Pipelines SDK to access Dataproc, and run the custom code there.
- **C.** Package the custom Python code into Docker containers, and use the load_component_from_file function to import the containers into the pipeline.
- **D.** Deploy the custom Python code to Cloud Functions, and use Kubeflow Pipelines to trigger the Cloud Function.

Answer: D

Question No. 2

You have recently created a proof-of-concept (POC) deep learning model. You are satisfied with the overall architecture, but you need to determine the value for a couple of hyperparameters. You want to perform hyperparameter tuning on Vertex AI to determine both the appropriate embedding dimension for a categorical feature used by your model and the optimal learning rate. You configure the following settings:

For the embedding dimension, you set the type to INTEGER with a minValue of 16 and maxValue of 64.

For the learning rate, you set the type to DOUBLE with a minValue of 10e-05 and maxValue of 10e-02.

You are using the default Bayesian optimization tuning algorithm, and you want to maximize model accuracy. Training time is not a concern. How should you set the hyperparameter scaling for each hyperparameter and the maxParallelTrials?

- **A.** Use UNIT_LINEAR_SCALE for the embedding dimension, UNIT_LOG_SCALE for the learning rate, and a large number of parallel trials.
- **B.** Use UNIT_LINEAR_SCALE for the embedding dimension, UNIT_LOG_SCALE for the learning rate, and a small number of parallel trials.
- **C.** Use UNIT_LOG_SCALE for the embedding dimension, UNIT_LINEAR_SCALE for the learning rate, and a large number of parallel trials.
- **D.** Use UNIT_LOG_SCALE for the embedding dimension, UNIT_LINEAR_SCALE for the learning rate, and a small number of parallel trials.

Answer: B

Question No. 3

You work on a data science team at a bank and are creating an ML model to predict loan default risk. You have collected and cleaned hundreds of millions of records worth of training data in a BigQuery table, and you now want to develop and compare multiple models on this data using TensorFlow and Vertex AI. You want to minimize any bottlenecks during the data ingestion state while considering scalability. What should you do?

- **A.** Use the BigQuery client library to load data into a dataframe, and use tf.data.Dataset.from_tensor_slices() to read it.
- **B.** Export data to CSV files in Cloud Storage, and use tf.data.TextLineDataset() to read them.
- **C.** Convert the data into TFRecords, and use tf.data.TFRecordDataset() to read them.
- **D.** Use TensorFlow I/O's BigQuery Reader to directly read the data.

Answer: D

Question No. 4

You are an ML engineer at a mobile gaming company. A data scientist on your team recently trained a TensorFlow model, and you are responsible for deploying this model into a mobile application. You discover that the inference latency of the current model doesn't meet production requirements. You need to reduce the inference time by 50%, and you are willing to accept a small decrease in model accuracy in order to reach the latency requirement. Without training a new model, which model optimization technique for reducing latency should you try first?

- **A.** Weight pruning
- **B.** Dynamic range quantization
- **C.** Model distillation
- **D.** Dimensionality reduction

Answer: C

Question No. 5

You are working on a system log anomaly detection model for a cybersecurity organization. You have developed the model using TensorFlow, and you plan to use it for real-time prediction. You need to create a Dataflow pipeline to ingest data via Pub/Sub and write the results to BigQuery. You want to minimize the serving latency as much as possible. What should you do?

- **A.** Containerize the model prediction logic in Cloud Run, which is invoked by Dataflow.
- **B.** Load the model directly into the Dataflow job as a dependency, and use it for prediction.
- **C.** Deploy the model to a Vertex AI endpoint, and invoke this endpoint in the Dataflow job.
- **D.** Deploy the model in a TFServing container on Google Kubernetes Engine, and invoke it in the Dataflow job.

Answer: A

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