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Google Professional Machine Learning Engineer Sample Questions (Q233-Q238):

NEW QUESTION # 233

You have been asked to develop an input pipeline for an ML training model that processes images from disparate sources at a low latency. You discover that your input data does not fit in memory. How should you create a dataset following Google-recommended

best practices?

- A. Convert the images to `tf.Tensor` Objects, and then run `tf.data.Dataset.from_tensors()`.
- **B. Convert the images Into TFRecords, store the images in Cloud Storage, and then use the `tf.data` API to read the images for training**
- C. Convert the images to `tf.Tensor` Objects, and then run `Dataset.from_tensor_slices()`.
- D. Create a `tf.data.Dataset.prefetch` transformation

Answer: B

Explanation:

An input pipeline is a way to prepare and feed data to a machine learning model for training or inference. An input pipeline typically consists of several steps, such as reading, parsing, transforming, batching, and prefetching the data. An input pipeline can improve the performance and efficiency of the model, as it can handle large and complex datasets, optimize the data processing, and reduce the latency and memory usage¹.

For the use case of developing an input pipeline for an ML training model that processes images from disparate sources at a low latency, the best option is to convert the images into TFRecords, store the images in Cloud Storage, and then use the `tf.data` API to read the images for training. This option involves using the following components and techniques:

* **TFRecords:** TFRecords is a binary file format that can store a sequence of data records, such as images, text, or audio.

TFRecords can help to compress, serialize, and store the data efficiently, and reduce the data loading and parsing time. TFRecords can also support data sharding and interleaving, which can improve the data throughput and parallelism².

* **Cloud Storage:** Cloud Storage is a service that allows you to store and access data on Google Cloud.

Cloud Storage can help to store and manage large and distributed datasets, such as images from different sources, and provide high availability, durability, and scalability. Cloud Storage can also integrate with other Google Cloud services, such as Compute Engine, AI Platform, and Dataflow³.

* **`tf.data` API:** `tf.data` API is a set of tools and methods that allow you to create and manipulate data pipelines in TensorFlow. `tf.data` API can help to read, transform, batch, and prefetch the data efficiently, and optimize the data processing for performance and memory. `tf.data` API can also support various data sources and formats, such as TFRecords, CSV, JSON, and images.

By using these components and techniques, the input pipeline can process large datasets of images from disparate sources that do not fit in memory, and provide low latency and high performance for the ML training model. Therefore, converting the images into TFRecords, storing the images in Cloud Storage, and using the `tf.data` API to read the images for training is the best option for this use case.

References:

- * [Build TensorFlow input pipelines | TensorFlow Core](#)
- * [TFRecord and `tf.Example` | TensorFlow Core](#)
- * [Cloud Storage documentation | Google Cloud](#)
- * [[`tf.data`: Build TensorFlow input pipelines | TensorFlow Core](#)]

NEW QUESTION # 234

You work for a company that sells corporate electronic products to thousands of businesses worldwide. Your company stores historical customer data in BigQuery. You need to build a model that predicts customer lifetime value over the next three years. You want to use the simplest approach to build the model and you want to have access to visualization tools. What should you do?

- A. Run the create model statement from the BigQuery console to create an AutoML model. Validate the results by using the `ml.evaluate` and `ml.predict` statements.
- **B. Create a Vertex AI Workbench notebook to perform exploratory data analysis. Use IPython magics to create a new BigQuery table with input features, create the model and validate the results by using the `create model`, `ml.evaluate`, and `ml.predict` statements.**
- C. Create a Vertex AI Workbench notebook to perform exploratory data analysis. Use IPython magics to create a new BigQuery table with input features. Use the BigQuery console to run the create model statement. Validate the results by using the `ml.evaluate` and `ml.predict` statements.
- D. Create a Vertex AI Workbench notebook to perform exploratory data analysis and create input features. Save the features as a CSV file in Cloud Storage. Import the CSV file as a new BigQuery table. Use the BigQuery console to run the create model statement. Validate the results by using the `ml.evaluate` and `ml.predict` statements.

Answer: B

NEW QUESTION # 235

You are developing a training pipeline for a new XGBoost classification model based on tabular data. The data is stored in a

BigQuery table You need to complete the following steps

1. Randomly split the data into training and evaluation datasets in a 65/35 ratio
2. Conduct feature engineering
- 3 Obtain metrics for the evaluation dataset.
- 4 Compare models trained in different pipeline executions

How should you execute these steps'?

- A. 1 In BigQuery ML use the create model statement with boosted_tree_classifier as the model type, and use BigQuery to handle the data splits.
2 Use ml transform to specify the feature engineering transformations, and train the model using the data in the table
' 3. Compare the evaluation metrics of the models by using a SQL query with the ml. training_info statement.
- B. 1 In BigQuery ML. use the create model statement with boostd_tree_classifier as the model type and use BigQuery to handle the data splits.
2 Use a SQL view to apply feature engineering and train the model using the data in that view
3. Compare the evaluation metrics of the models by using a SQL query with the ml. training_info statement.
- C. 1 Using Vertex AI Pipelines, add a component to divide the data into training and evaluation sets, and add another component for feature engineering
2 Enable autologging of metrics in the training component
3 Compare models using the artifacts lineage in Vertex ML Metadata
- D. 1 Using Vertex AI Pipelines, add a component to divide the data into training and evaluation sets, and add another component for feature engineering
2. Enable auto logging of metrics in the training component.
3 Compare pipeline runs in Vertex AI Experiments

Answer: C

Explanation:

Vertex AI Pipelines is a service that allows you to create and run scalable and portable ML pipelines on Google Cloud. You can use Vertex AI Pipelines to add a component to divide the data into training and evaluation sets, and add another component for feature engineering. A component is a self-contained piece of code that performs a specific task in the pipeline. You can use the built-in components provided by Vertex AI Pipelines, or create your own custom components. By using Vertex AI Pipelines, you can orchestrate and automate your ML workflow, and track the provenance and lineage of your data and models. You can also enable autologging of metrics in the training component, which is a feature that automatically logs the metrics from your XGBoost model to Vertex AI Experiments. Vertex AI Experiments is a service that allows you to track, compare, and optimize your ML experiments on Google Cloud. You can use Vertex AI Experiments to monitor the training progress, visualize the metrics, and analyze the results of your model. You can also compare models using the artifacts lineage in Vertex ML Metadata. Vertex ML Metadata is a service that stores and manages the metadata of your ML artifacts, such as datasets, models, metrics, and executions. You can use Vertex ML Metadata to view the artifacts lineage, which is a graph that shows the relationships and dependencies among the artifacts. By using the artifacts lineage, you can compare the performance and quality of different models trained in different pipeline executions, and identify the best model for your use case. By using Vertex AI Pipelines, Vertex AI Experiments, and Vertex ML Metadata, you can execute the steps required for developing a training pipeline for a new XGBoost classification model based on tabular data stored in a BigQuery table. References:

- * Vertex AI Pipelines documentation
- * Vertex AI Experiments documentation
- * Vertex ML Metadata documentation
- * Preparing for Google Cloud Certification: Machine Learning Engineer Professional Certificate

NEW QUESTION # 236

You are developing a recommendation engine for an online clothing store. The historical customer transaction data is stored in BigQuery and Cloud Storage. You need to perform exploratory data analysis (EDA), preprocessing and model training. You plan to rerun these EDA, preprocessing, and training steps as you experiment with different types of algorithms. You want to minimize the cost and development effort of running these steps as you experiment. How should you configure the environment?

- A. Create a Vertex AI Workbench user-managed notebook on a Dataproc Hub. and use the %%bigquery magic commands in Jupyter to query the tables.
- B. Create a Vertex AI Workbench managed notebook on a Dataproc cluster, and use the spark-bigquery-connector to access the tables.
- C. Create a Vertex AI Workbench managed notebook to browse and query the tables directly from the JupyterLab interface.
- D. Create a Vertex AI Workbench user-managed notebook using the default VM instance, and use the %%bigquery magic commands in Jupyter to query the tables.

Answer: C

Explanation:

A Vertex AI Workbench managed notebook is a fully integrated development environment (IDE) that allows you to access BigQuery and Cloud Storage data sources directly from the JupyterLab interface. You can use the BigQuery UI extension or the %%bigquery magic commands to query the tables, and use the Cloud Storage UI extension or the %%gcs magic commands to access the files. You can also use the built-in tools and libraries for EDA, preprocessing, and model training, such as TensorFlow, scikit-learn, pandas, and matplotlib. A managed notebook is a cost-effective and convenient option, as you do not need to provision or manage the underlying VM instance, and you can scale up or down the machine type as needed. You can also leverage the Vertex AI platform features, such as custom training, hyperparameter tuning, and model deployment, from within the notebook.

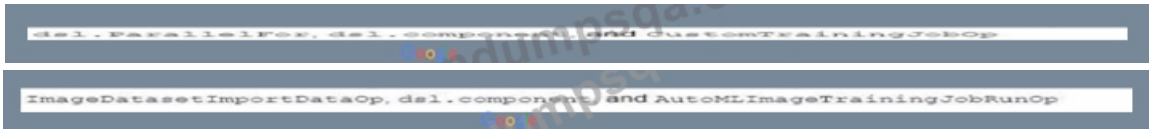
References:

- * Vertex AI Workbench documentation
- * BigQuery UI extension for JupyterLab
- * Cloud Storage UI extension for JupyterLab
- * Vertex AI platform documentation

NEW QUESTION # 237

You are building a custom image classification model and plan to use Vertex AI Pipelines to implement the end-to-end training. Your dataset consists of images that need to be preprocessed before they can be used to train the model. The preprocessing steps include resizing the images, converting them to grayscale, and extracting features. You have already implemented some Python functions for the preprocessing tasks. Which components should you use in your pipeline'?

- A.
- B.



Answer: B

NEW QUESTION # 238

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