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Google Professional Machine Learning Engineer Exam is a certification exam that is designed to test the skills and knowledge of professionals who are interested in working with machine learning on the Google Cloud Platform. Professional-Machine-Learning-Engineer Exam is intended for individuals who have a strong understanding of machine learning concepts and experience with implementing and deploying machine learning models in production environments.

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Google Professional Machine Learning Engineer Certification Exam is a highly sought-after certification that demonstrates a professional's proficiency in designing and deploying machine learning models on Google Cloud Platform. Google Professional Machine Learning Engineer certification is designed for professionals who have experience in machine learning and are looking to advance their career in this field. Professional-Machine-Learning-Engineer Exam is designed to test the candidate's knowledge and skills in various aspects of machine learning, such as data preparation, model training, model evaluation, and optimization.

Achieving the Google Professional Machine Learning Engineer certification demonstrates a candidate's ability to design and implement machine learning models using Google Cloud technologies, and can lead to career advancement opportunities and increased job prospects. It is a highly regarded certification in the field of machine learning and is recognized by industry professionals worldwide.

Google Professional Machine Learning Engineer Sample Questions (Q82-Q87):

NEW QUESTION # 82

You have built a model that is trained on data stored in Parquet files. You access the data through a Hive table hosted on Google Cloud. You preprocessed these data with PySpark and exported it as a CSV file into Cloud Storage. After preprocessing, you execute additional steps to train and evaluate your model. You want to parametrize this model training in Kubeflow Pipelines. What should you do?

- A. Remove the data transformation step from your pipeline.
- **B. Add a ContainerOp to your pipeline that spins a Dataproc cluster, runs a transformation, and then saves the transformed data in Cloud Storage.**
- C. Containerize the PySpark transformation step, and add it to your pipeline.
- D. Deploy Apache Spark at a separate node pool in a Google Kubernetes Engine cluster. Add a ContainerOp to your pipeline that invokes a corresponding transformation job for this Spark instance.

Answer: B

Explanation:

The best option for parametrizing the model training in Kubeflow Pipelines is to add a ContainerOp to the pipeline that spins a Dataproc cluster, runs a transformation, and then saves the transformed data in Cloud Storage. This option has the following advantages:

* It allows the data transformation to be performed as part of the Kubeflow Pipeline, which can ensure the consistency and reproducibility of the data processing and the model training. By adding a ContainerOp to the pipeline, you can define the parameters and the logic of the data transformation step, and integrate it with the other steps of the pipeline, such as the model training and evaluation.

* It leverages the scalability and performance of Dataproc, which is a fully managed service that runs Apache Spark and Apache Hadoop clusters on Google Cloud. By spinning a Dataproc cluster, you can run the PySpark transformation on the Parquet files stored in the Hive table, and take advantage of the parallelism and speed of Spark. Dataproc also supports various features and integrations, such as autoscaling, preemptible VMs, and connectors to other Google Cloud services, that can optimize the data processing and reduce the cost.

* It simplifies the data storage and access, as the transformed data is saved in Cloud Storage, which is a scalable, durable, and secure object storage service. By saving the transformed data in Cloud Storage, you can avoid the overhead and complexity of managing the data in the Hive table or the Parquet files.

Moreover, you can easily access the transformed data from Cloud Storage, using various tools and frameworks, such as TensorFlow, BigQuery, or Vertex AI.

The other options are less optimal for the following reasons:

* Option A: Removing the data transformation step from the pipeline eliminates the parametrization of the

* model training, as the data processing and the model training are decoupled and independent. This option requires running the PySpark transformation separately from the Kubeflow Pipeline, which can introduce inconsistency and unreproducibility in the data processing and the model training. Moreover, this option requires managing the data in the Hive table or the Parquet files, which can be cumbersome and inefficient.

* Option B: Containerizing the PySpark transformation step, and adding it to the pipeline introduces additional complexity and overhead. This option requires creating and maintaining a Docker image that can run the PySpark transformation, which can be challenging and time-consuming. Moreover, this option requires running the PySpark transformation on a single container, which can be slow and inefficient, as it does not leverage the parallelism and performance of Spark.

* Option D: Deploying Apache Spark at a separate node pool in a Google Kubernetes Engine cluster, and adding a ContainerOp to the pipeline that invokes a corresponding transformation job for this Spark instance introduces additional complexity and cost. This option requires creating and managing a separate node pool in a Google Kubernetes Engine cluster, which is a fully managed service that runs Kubernetes clusters on Google Cloud. Moreover, this option requires deploying and running Apache Spark on the node pool, which can be tedious and costly, as it requires configuring and maintaining the Spark cluster, and paying for the node pool usage.

NEW QUESTION # 83

You work for a magazine publisher and have been tasked with predicting whether customers will cancel their annual subscription. In your exploratory data analysis, you find that 90% of individuals renew their subscription every year, and only 10% of individuals cancel their subscription. After training a NN Classifier, your model predicts those who cancel their subscription with 99% accuracy and predicts those who renew their subscription with 82% accuracy. How should you interpret these results?

- A. This is a good result because predicting those who cancel their subscription is more difficult, since there is less data for this group.
- B. This is a good result because the accuracy across both groups is greater than 80%.
- C. This is not a good result because the model should have a higher accuracy for those who renew their subscription than for those who cancel their subscription.
- **D. This is not a good result because the model is performing worse than predicting that people will always renew their subscription.**

Answer: D

Explanation:

This is not a good result because the model is performing worse than predicting that people will always renew their subscription. This option has the following reasons:

* It indicates that the model is not learning from the data, but rather memorizing the majority class. Since

90% of the individuals renew their subscription every year, the model can achieve a 90% accuracy by simply predicting that everyone will renew their subscription, without considering the features or the patterns in the data. However, the model's accuracy for predicting those who renew their subscription is only 82%, which is lower than the baseline accuracy of 90%. This suggests that the model is overfitting to the minority class (those who cancel their subscription), and underfitting to the majority class (those who renew their subscription).

* It implies that the model is not useful for the business problem, as it cannot identify the customers who are at risk of churning. The goal of predicting whether customers will cancel their annual subscription is to prevent customer churn and increase customer retention. However, the model's accuracy for predicting those who cancel their subscription is 99%, which is too high and unrealistic, as it means that the model can almost perfectly identify the customers who will churn, without any false positives or false negatives. This may indicate that the model is cheating or exploiting some leakage in the data, such as a feature that reveals the outcome of the prediction. Moreover, the model's accuracy for predicting those who renew their subscription is 82%, which is too low and unreliable, as it means that the model can miss many customers who will churn, and falsely label them as renewing customers. This can lead to losing customers and revenue, and failing to take proactive actions to retain them.

References:

* How to Evaluate Machine Learning Models: Classification Metrics | Machine Learning Mastery

* Imbalanced Classification: Predicting Subscription Churn | Machine Learning Mastery

NEW QUESTION # 84

You work on a team that builds state-of-the-art deep learning models by using the TensorFlow framework.

Your team runs multiple ML experiments each week which makes it difficult to track the experiment runs.

You want a simple approach to effectively track, visualize and debug ML experiment runs on Google Cloud while minimizing any overhead code. How should you proceed?

- A. Set up a Vertex AI Workbench notebook instance Use the instance to save metrics data in a Cloud Storage bucket and to host TensorBoard locally for visualization.
- B. Set up a Cloud Function to write and save metrics files to a BigQuery table. Configure a Google Cloud VM to host TensorBoard locally for visualization.
- **C. Set up Vertex AI Experiments to track metrics and parameters Configure Vertex AI TensorBoard for visualization.**
- D. Set up a Cloud Function to write and save metrics files to a Cloud Storage Bucket Configure a Google Cloud VM to host TensorBoard locally for visualization.

Answer: C

NEW QUESTION # 85

Your company needs to generate product summaries for vendors. You evaluated a foundation model from Model Garden for text summarization but found that the summaries do not align with your company's brand voice. How should you improve this LLM-based summarization model to better meet your business objectives?

- A. Replace the pre-trained model with another model in Model Garden.
- B. Tune the token output limit in the response.

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