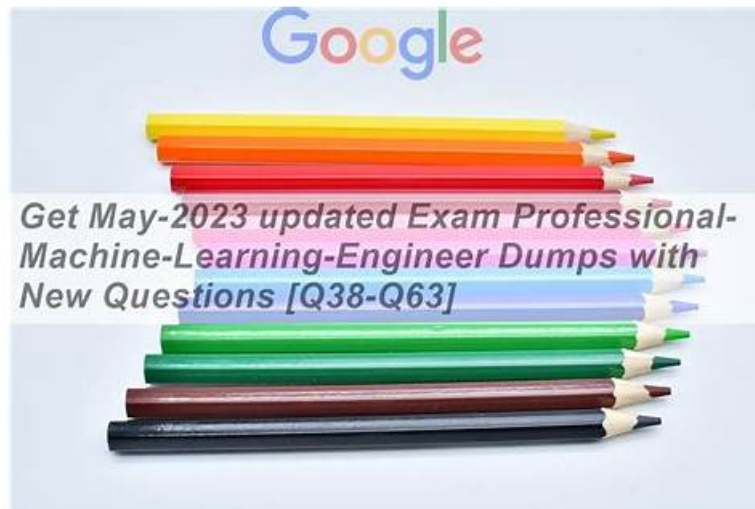


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Google Professional Machine Learning Engineer Sample Questions (Q58-Q63):

NEW QUESTION # 58

You work for a manufacturing company. You need to train a custom image classification model to detect product defects at the end of an assembly line. Although your model is performing well, some images in your holdout set are consistently mislabeled with high confidence. You want to use Vertex AI to understand your model's results. What should you do?

- A. Configure example-based explanations by using integrated gradients. Set visualization type to pixels, and set `clip_percent_upperbound` to 95.
- B. Configure feature-based explanations by using sampled Shapley. Set number of feature permutations to the maximum value of 50.
- C. Create an index by using Vertex AI Matching Engine. Query the index with your mislabeled images.
- D. Configure example-based explanations. Specify the embedding output layer to be used for the latent space representation.

Answer: A

NEW QUESTION # 59

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. 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.
- 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. Remove the data transformation step from your pipeline.
- D. Containerize the PySpark transformation step, and add it to your pipeline.

Answer: A

NEW QUESTION # 60

You work for a toy manufacturer that has been experiencing a large increase in demand. You need to build an ML model to reduce the amount of time spent by quality control inspectors checking for product defects. Faster defect detection is a priority. The factory does not have reliable Wi-Fi. Your company wants to implement the new ML model as soon as possible. Which model should you use?

- A. AutoML Vision model
- B. AutoML Vision Edge mobile-high-accuracy-1 model
- C. AutoML Vision Edge mobile-low-latency-1 model
- D. AutoML Vision Edge mobile-versatile-1 model

Answer: C

Explanation:

AutoML Vision Edge is a service that allows you to create custom image classification and object detection models that can run on edge devices, such as mobile phones, tablets, or IoT devices¹. AutoML Vision Edge offers four types of models that vary in size, accuracy, and latency: mobile-versatile-1, mobile-low-latency-1, mobile-high-accuracy-1, and mobile-core-ml-low-latency-1². Each model has its own trade-offs and use cases, depending on the device specifications and the application requirements. For the use case of building an ML model to reduce the amount of time spent by quality control inspectors checking for product defects, the best model to use is the AutoML Vision Edge mobile-low-latency-1 model. This model is optimized for fast inference on mobile devices, with a latency of less than 50 milliseconds on a Pixel 1 phone². Faster defect detection is a priority for the toy manufacturer, and the factory does not have reliable Wi-Fi, so a low-latency model that can run on the device without internet connection is ideal. The mobile-low-latency-1 model also has a small size of less than 4 MB, which makes it easy to deploy and update². The mobile-low-latency-1 model has a slightly lower accuracy than the mobile-high-accuracy-1 model, but it is still suitable for most image classification tasks². Therefore, the AutoML Vision Edge mobile-low-latency-1 model is the best option for this use case.

Reference:

AutoML Vision Edge documentation

AutoML Vision Edge model types

NEW QUESTION # 61

A Machine Learning Specialist is working with a large company to leverage machine learning within its products. The company wants to group its customers into categories based on which customers will and will not churn within the next 6 months. The company has labeled the data available to the Specialist.

Which machine learning model type should the Specialist use to accomplish this task?

- A. Linear regression
- B. Clustering
- C. Classification
- D. Reinforcement learning

Answer: C

Explanation:

The goal of classification is to determine to which class or category a data point (customer in our case) belongs to. For classification problems, data scientists would use historical data with predefined target variables AKA labels (churner/non-churner) - answers that need to be predicted - to train an algorithm. With classification, businesses can answer the following questions:

- * Will this customer churn or not?
- * Will a customer renew their subscription?
- * Will a user downgrade a pricing plan?
- * Are there any signs of unusual customer behavior?

Reference: <https://www.kdnuggets.com/2019/05/churn-prediction-machine-learning.html>

NEW QUESTION # 62

You are going to train a DNN regression model with Keras APIs using this code:

□ How many trainable weights does your model have? (The arithmetic below is correct.)

- A. $501 * 256 + 257 * 128 + 2 = 161154$
- B. $500 * 256 * 0.25 + 256 * 128 * 0.25 + 128 * 2 = 40448$
- C. $500 * 256 + 256 * 128 + 128 * 2 = 161024$
- D. $501 * 256 + 257 * 128 + 128 * 2 = 161408$

Answer: B

NEW QUESTION # 63

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