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Google Certified Professional Data Engineer Exam Sample Questions (Q220-Q225):

NEW QUESTION # 220

Your company built a TensorFlow neural-network model with a large number of neurons and layers. The model fits well for the training data. However, when tested against new data, it performs poorly. What method can you employ to address this?

- A. Serialization
- B. Dimensionality Reduction
- C. Threading
- **D. Dropout Methods**

Answer: D

NEW QUESTION # 221

A data scientist has created a BigQuery ML model and asks you to create an ML pipeline to serve predictions. You have a REST API application with the requirement to serve predictions for an individual user ID with latency under 100 milliseconds. You use the following query to generate predictions: `SELECT predicted_label, user_id FROM ML.PREDICT (MODEL 'dataset.model', table user_features)`. How should you create the ML pipeline?

- A. Create an Authorized View with the provided query. Share the dataset that contains the view with the application service account.
- **B. Create a Cloud Dataflow pipeline using BigQueryIO to read predictions for all users from the query. Write the results to Cloud Bigtable using BigtableIO. Grant the Bigtable Reader role to the application service account so that the application can read predictions for individual users from Cloud Bigtable.**
- C. Add a WHERE clause to the query, and grant the BigQuery Data Viewer role to the application service account.
- D. Create a Cloud Dataflow pipeline using BigQueryIO to read results from the query. Grant the Dataflow Worker role to the application service account.

Answer: B

NEW QUESTION # 222

Which of these is NOT a way to customize the software on Dataproc cluster instances?

- A. Log into the master node and make changes from there
- **B. Configure the cluster using Cloud Deployment Manager**
- C. Set initialization actions
- D. Modify configuration files using cluster properties

Answer: B

Explanation:

Explanation

You can access the master node of the cluster by clicking the SSH button next to it in the Cloud Console.

You can easily use the `--properties` option of the `dataproc` command in the Google Cloud SDK to modify many common configuration files when creating a cluster.

When creating a Cloud Dataproc cluster, you can specify initialization actions in executables and/or scripts that Cloud Dataproc will run on all nodes in your Cloud Dataproc cluster immediately after the cluster is set up.

[<https://cloud.google.com/dataproc/docs/concepts/configuring-clusters/init-actions>] Reference:

<https://cloud.google.com/dataproc/docs/concepts/configuring-clusters/cluster-properties>

NEW QUESTION # 223

Suppose you have a dataset of images that are each labeled as to whether or not they contain a human face. To create a neural network that recognizes human faces in images using this labeled dataset, what approach would likely be the most effective?

- A. Use K-means Clustering to detect faces in the pixels.
- B. Use feature engineering to add features for eyes, noses, and mouths to the input data.
- C. Build a neural network with an input layer of pixels, a hidden layer, and an output layer with two categories.
- **D. Use deep learning by creating a neural network with multiple hidden layers to automatically detect features of faces.**

Answer: D

Explanation:

Explanation

Traditional machine learning relies on shallow nets, composed of one input and one output layer, and at most one hidden layer in between. More than three layers (including input and output) qualifies as "deep" learning.

So deep is a strictly defined, technical term that means more than one hidden layer.

In deep-learning networks, each layer of nodes trains on a distinct set of features based on the previous layer's output. The further you advance into the neural net, the more complex the features your nodes can recognize, since they aggregate and recombine features from the previous layer.

A neural network with only one hidden layer would be unable to automatically recognize high-level features of faces, such as eyes, because it wouldn't be able to "build" these features using previous hidden layers that detect low-level features, such as lines.

Feature engineering is difficult to perform on raw image data.

K-means Clustering is an unsupervised learning method used to categorize unlabeled data.

Reference: <https://deeplearning4j.org/neuralnet-overview>

NEW QUESTION # 224

Which role must be assigned to a service account used by the virtual machines in a Dataproc cluster so they can execute jobs?

- A. Dataproc Runner
- B. Dataproc Editor
- **C. Dataproc Worker**
- D. Dataproc Viewer

Answer: C

Explanation:

Service accounts used with Cloud Dataproc must have Dataproc/Dataproc Worker role (or have all the permissions granted by Dataproc Worker role).

NEW QUESTION # 225

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