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Designing and Implementing a Data Science Solution on Azure

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Step 3: Taking Online Learning Paths

In addition, Microsoft recommends that the candidates for the DP-100 Exam take online courses to adequately prepare for their test. You can find the following learning paths on the official certification webpage:

- Create Machine Learning Models
- Create No-Code Predictive Models with Azure Machine Learning
- Build AI Solutions with Azure Machine Learning

Microsoft Designing and Implementing a Data Science Solution on Azure Sample Questions (Q389-Q394):

NEW QUESTION # 389

You create an Azure Machine Learning workspace. The workspace contains a dataset named sample.dataset, a compute instance, and a compute cluster. You must create a two-stage pipeline that will prepare data in the dataset and then train and register a model based on the prepared data. The first stage of the pipeline contains the following code:

You need to identify the location containing the output of the first stage of the script that you can use as input for the second stage. Which storage location should you use?

- A. workspacefilestore datastore
- B. workspaceblobstore datastore
- **C. compute instance**

Answer: C

NEW QUESTION # 390

Note: This question is part of a series of questions that present the same scenario. Each question in the series contains a unique solution that might meet the stated goals. Some question sets might have more than one correct solution, while others might not have a correct solution.

After you answer a question in this section, you will NOT be able to return to it. As a result, these questions will not appear in the review screen.

You are using Azure Machine Learning to run an experiment that trains a classification model.

You want to use Hyperdrive to find parameters that optimize the AUC metric for the model. You configure a HyperDriveConfig for the experiment by running the following code:

variable named y_test variable, and the predicted probabilities from the model are stored in a variable named y_predicted. You need to add logging to the script to allow Hyperdrive to optimize hyperparameters for the AUC metric. Solution: Run the following code:

Does the solution meet the goal?

- **A. Yes**
- B. No

Answer: A

Explanation:

Python printing/logging example:

```
logging.info(message)
```

Destination: Driver logs, Azure Machine Learning designer

Reference:

<https://docs.microsoft.com/en-us/azure/machine-learning/how-to-debug-pipelines>

NEW QUESTION # 391

You are developing a hands-on workshop to introduce Docker for Windows to attendees.

You need to ensure that workshop attendees can install Docker on their devices.

Which two prerequisite components should attendees install on the devices? Each correct answer presents part of the solution.
NOTE: Each correct selection is worth one point.

- A. BIOS-enabled virtualization
- B. Microsoft Hardware-Assisted Virtualization Detection Tool
- C. Kitematic
- D. VirtualBox
- E. Windows 10 64-bit Professional

Answer: A,E

Explanation:

C: Make sure your Windows system supports Hardware Virtualization Technology and that virtualization is enabled.
Ensure that hardware virtualization support is turned on in the BIOS settings. For example:

E: To run Docker, your machine must have a 64-bit operating system running Windows 7 or higher.

References:

https://docs.docker.com/toolbox/toolbox_install_windows/

<https://blogs.technet.microsoft.com/canitpro/2015/09/08/step-by-step-enabling-hyper-v-for-use-on-windows-10/>

NEW QUESTION # 392

Note: This question is part of a series of questions that present the same scenario. Each question in the series contains a unique solution that might meet the stated goals. Some question sets might have more than one correct solution, while others might not have a correct solution.

After you answer a question in this section, you will NOT be able to return to it. As a result, these questions will not appear in the review screen.

You are creating a model to predict the price of a student's artwork depending on the following variables: the student's length of education, degree type, and art form.

You start by creating a linear regression model.

You need to evaluate the linear regression model.

Solution: Use the following metrics: Mean Absolute Error, Root Mean Absolute Error, Relative Absolute Error, Relative Squared Error, and the Coefficient of Determination.

Does the solution meet the goal?

- A. Yes
- B. No

Answer: A

Explanation:

The following metrics are reported for evaluating regression models. When you compare models, they are ranked by the metric you select for evaluation.

Mean absolute error (MAE) measures how close the predictions are to the actual outcomes; thus, a lower score is better.

Root mean squared error (RMSE) creates a single value that summarizes the error in the model. By squaring the difference, the metric disregards the difference between over-prediction and under-prediction.

Relative absolute error (RAE) is the relative absolute difference between expected and actual values; relative because the mean difference is divided by the arithmetic mean.

Relative squared error (RSE) similarly normalizes the total squared error of the predicted values by dividing by the total squared error of the actual values.

Mean Zero One Error (MZOE) indicates whether the prediction was correct or not. In other words: $\text{ZeroOneLoss}(x,y) = 1$ when $x \neq y$; otherwise 0.

Coefficient of determination, often referred to as R2, represents the predictive power of the model as a value between 0 and 1. Zero means the model is random (explains nothing); 1 means there is a perfect fit. However, caution should be used in interpreting R2 values, as low values can be entirely normal and high values can be suspect.

AUC.

Reference:

<https://docs.microsoft.com/en-us/azure/machine-learning/studio-module-reference/evaluate-model>

NEW QUESTION # 393

You register a file dataset named csvjolder that references a folder. The folder includes multiple comma-separated values (CSV)

files in an Azure storage blob container. You plan to use the following code to run a script that loads data from the file dataset. You create and instantiate the following variables:

You have the following code:

You need to pass the dataset to ensure that the script can read the files it references. Which code segment should you insert to replace the code comment?

- A)
- B)
- C)
- D)

- A. Option D
- B. Option B
- C. Option A
- D. Option C

Answer: A

Explanation:

Example:

```
from azureml.train.estimator import Estimator
script_params = {
    # to mount files referenced by mnist dataset
    '--data-folder': mnist_file_dataset.as_named_input('mnist_opendataset').as_mount(),
    '--regularization': 0.5
}
est = Estimator(source_directory=script_folder,
    script_params=script_params,
    compute_target=compute_target,
    environment_definition=env,
    entry_script='train.py')
```

Reference:

<https://docs.microsoft.com/en-us/azure/machine-learning/tutorial-train-models-with-aml>

NEW QUESTION # 394

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