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Microsoft DP-100: Designing and Implementing a Data Science Solution on Azure is a certification exam that is designed to evaluate a candidate's knowledge and skills in designing and implementing data science solutions on Microsoft Azure. DP-100 Exam is intended for data professionals, data scientists, and developers who want to demonstrate their expertise in implementing big data solutions on the Azure platform.

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Step 2: Enrolling for the Instructor-Led Training Course

This is the most recommended way of preparing for the Microsoft DP-100 Exam. Microsoft offers the official training course under the title "Designing and Implementing a Data Science Solution on Azure" to help the students build a solid knowledge base for the test. The training sessions are delivered to the individuals by the world-class professionals with plenty of experience in the field. So, the candidates get trained accordingly in the best way possible. Another advantage of taking the instructor-led course is that you have an opportunity to ask your questions and receive feedback whenever you face difficulties.

Microsoft Designing and Implementing a Data Science Solution on Azure Sample Questions (Q37-Q42):

NEW QUESTION # 37
You use Azure Machine Learning to train a machine learning model.
You use the following training script in Python to perform logging:

```
import mlflow
mlflow.log_metric("accuracy", float(val_accuracy))
```

You must use a Python script to define a sweep job.
You need to provide the primary metric and goal you want hyperparameter tuning to optimize.
NOTE: Each correct selection is worth one point.

Answer Area

```
from azure.ai.ml.sweep import Uniform, Choice
command_job_for_sweep = command_job(
    learning_rate=Uniform(min_value=0.05, max_value=0.1),
    batch_size=Choice(values=[16, 32, 64, 128]),
)
sweep_job = command_job_for_sweep.sweep(
    compute="cpu-cluster",
    sampling_algorithm = "bayesian",
    primary_metric=" val_accuracy ▼ ",
        accuracy
        val_accuracy
        test-multi_logloss

    goal=" Maximize ▼ ",
        None
        Minimize
        Maximize
)
```

Answer:

Explanation:

Answer Area

```
from azure.ai.ml.sweep import Uniform, Choice
command_job_for_sweep = command_job(
    learning_rate=Uniform(min_value=0.05, max_value=0.1),
    batch_size=Choice(values=[16, 32, 64, 128]),
)
sweep_job = command_job_for_sweep.sweep(
    compute="cpu-cluster",
    sampling_algorithm = "bayesian",
    primary_metric="val_accuracy  ▼  ",
```

| accuracy |
| val_accuracy |
| test-multi_logloss |

```
    goal=" Maximize  ▼  ",
)
```

| None |
| Minimize |
| Maximize |

Explanation

NEW QUESTION # 38

You create an Azure Data Lake Storage Gen2 stowage account named storage1 containing a file system named fsi and a folder named folder1.

The contents of folder1 must be accessible from jobs on compute targets in the Azure Machine Learning workspace.

You need to construct a URI to reference folder1.

How should you construct the URI? To answer, select the appropriate options in the answer area.

NOTE: Each correct selection is worth one point.

Answer Area

| abfss | ▼ | :// | fs1@storage1.dfs.core.windows.net/folder1/ | ▼ |

Answer:

Explanation:

Answer Area

| abfss. | ▼ | :// | fs1@storage1.dfs.core.windows.net/folder1/ | ▼ |

NEW QUESTION # 39

You create an Azure Databricks workspace and a linked Azure Machine Learning workspace.

You have the following Python code segment in the Azure Machine Learning workspace:

```
import mlflow
import mlflow.azureml
import azureml.mlflow
import azureml.core
from azureml.core import Workspace
subscription_id = 'subscription_id'
resourse_group = 'resource_group_name'
workspace_name = 'workspace_name'
ws = Workspace.get(name=workspace_name,
subscription_id=subscription_id,
resource_group=resource_group)
```

experimentName = "/Users/{user_name}/{experiment_folder}/{experiment_name}" mlflow.set_experiment(experimentName) uri = ws.get_mlflow_tracking_uri() mlflow.set_tracking_uri(uri) Instructions: For each of the following statements, select Yes if the statement is true. Otherwise, select No.

NOTE: Each correct selection is worth one point.

Answer:

Explanation:

Reference:
https://docs.microsoft.com/en-us/python/api/azureml-core/azureml.core.workspace.workspace
https://docs.microsoft.com/en-us/azure/machine-learning/how-to-use-mlflow

NEW QUESTION # 40
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 have a Python script named train.py in a local folder named scripts. The script trains a regression model by using scikit-learn. The script includes code to load a training data file which is also located in the scripts folder.

You must run the script as an Azure ML experiment on a compute cluster named aml-compute.

You need to configure the run to ensure that the environment includes the required packages for model training. You have instantiated a variable named aml-compute that references the target compute cluster.

Solution: Run the following code:

```
from azureml.train.dnn import TensorFlow
sk_est = TensorFlow(source_directory='./scripts',
 compute_target=aml-compute,
 entry_script='train.py')
```

Does the solution meet the goal?

- A. Yes
- B. No

Answer: B

Explanation:
Explanation
The scikit-learn estimator provides a simple way of launching a scikit-learn training job on a compute target. It is implemented through the SKLearn class, which can be used to support single-node CPU training.
Example:
from azureml.train.sklearn import SKLearn
}
estimator = SKLearn(source_directory=project_folder,
compute_target=compute_target,
entry_script='train_iris.py'
)
Reference:
https://docs.microsoft.com/en-us/azure/machine-learning/how-to-train-scikit-learn

NEW QUESTION # 41
You need to produce a visualization for the diagnostic test evaluation according to the data visualization requirements.
Which three modules should you recommend be used in sequence? To answer, move the appropriate modules from the list of modules to the answer area and arrange them in the correct order.

Modules	Answer Area
Score Matchbox Recommender	
Apply Transformation	
Evaluate Recommender	
Evaluate Model	
Train Model	
Sweep Clustering	
Score Model	
Load Trained Model	

Answer:

Explanation:

Modules

Score Matchbox Recommender
Apply Transformation
Evaluate Recommender
Evaluate Model
Train Model
Sweep Clustering
Score Model
Load Trained Model

Answer Area

Sweep Clustering
Train Model
Evaluate Model
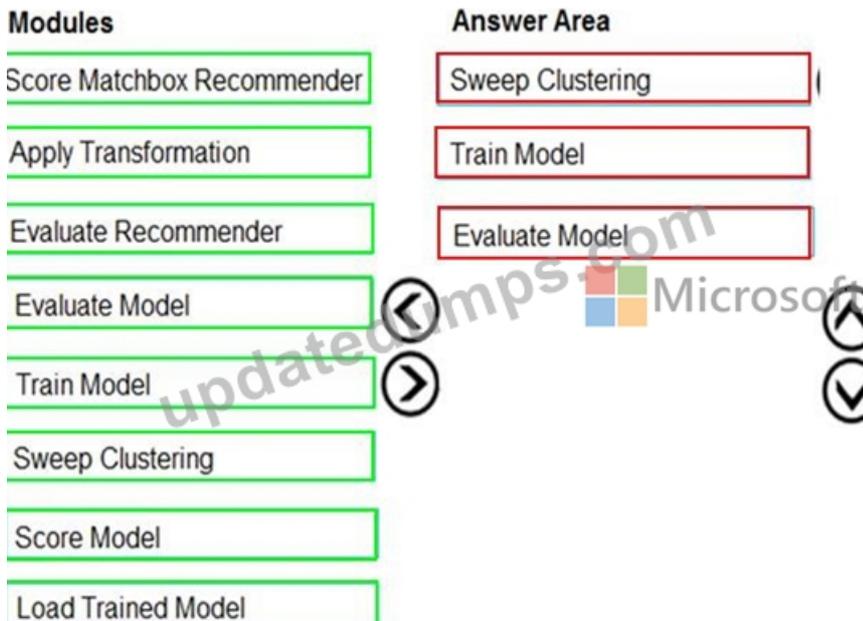
Explanation:

Step 1: Sweep Clustering

Start by using the "Tune Model Hyperparameters" module to select the best sets of parameters for each of the models we're considering.

One of the interesting things about the "Tune Model Hyperparameters" module is that it not only outputs the results from the Tuning, it also outputs the Trained Model.

Step 2: Train Model

Step 3: Evaluate Model

Scenario: You need to provide the test results to the Fabrikam Residences team. You create data visualizations to aid in presenting the results.

You must produce a Receiver Operating Characteristic (ROC) curve to conduct a diagnostic test evaluation of the model. You need to select appropriate methods for producing the ROC curve in Azure Machine Learning Studio to compare the Two-Class Decision Forest and the Two-Class Decision Jungle modules with one another.

References:

http://breaking-bi.blogspot.com/2017/01/azure-machine-learning-model-evaluation.html

NEW QUESTION # 42

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