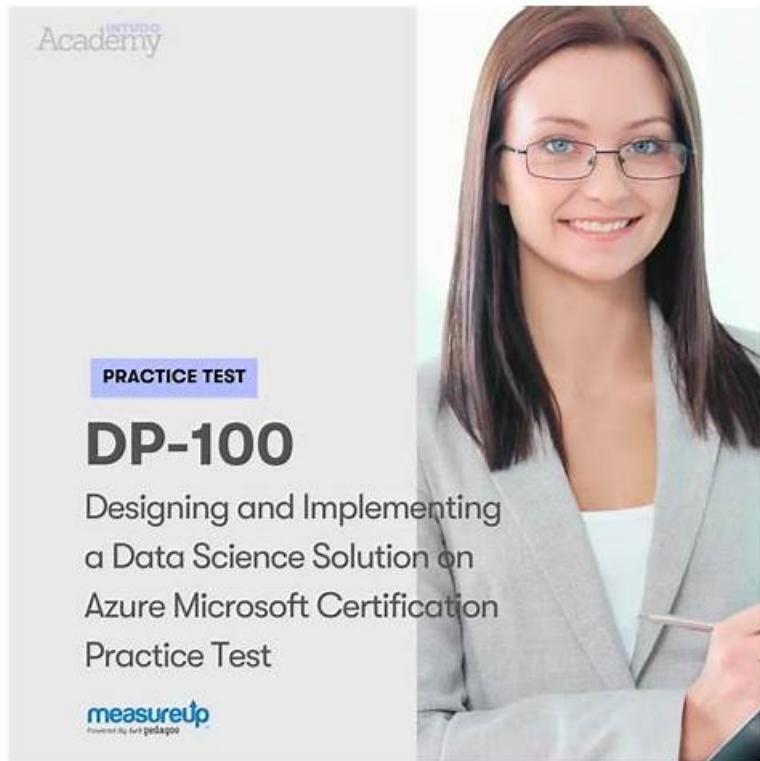


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Microsoft Designing and Implementing a Data Science Solution on Azure Sample Questions (Q143-Q148):

NEW QUESTION # 143

You plan to use Hyperdrive to optimize the hyperparameters selected when training a model. You create the following code to define options for the hyperparameter experiment

```
import azureml.train.hyperdrive.parameter_expressions as pe
from azureml.train.hyperdrive import GridParameterSampling, HyperDriveConfig

param_sampling = GridParameterSampling({
    "max_depth" : pe.choice(6, 7, 8, 9),
    "learning_rate" : pe.choice(0.05, 0.1, 0.15)
})

hyperdrive_run_config = HyperDriveConfig(
    estimator = estimator,
    hyperparameter_sampling = param_sampling,
    policy = None,
    primary_metric_name = "auc",
    primary_metric_goal = PrimaryMetricGoal.MAXIMIZE,
    max_total_runs = 50,
    max_concurrent_runs = 4)
```

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 Area

There will be 50 runs for this hyperparameter tuning experiment.

Yes No

You can use the policy parameter in the HyperDriveConfig class to specify a security policy.

Yes No

The experiment will create a run for every possible value for the learning rate parameter between 0.05 and 0.15.

Yes No

Answer:

Explanation:

Answer Area

There will be 50 runs for this hyperparameter tuning experiment.

Yes No

You can use the policy parameter in the HyperDriveConfig class to specify a security policy.

Yes No

The experiment will create a run for every possible value for the learning rate parameter between 0.05 and 0.15.

Yes No

Explanation:

Box 1: No

max_total_runs (50 here)

The maximum total number of runs to create. This is the upper bound; there may be fewer runs when the sample space is smaller than this value.

Box 2: Yes

Policy EarlyTerminationPolicy

The early termination policy to use. If None - the default, no early termination policy will be used.

Box 3: No

Discrete hyperparameters are specified as a choice among discrete values. choice can be:

one or more comma-separated values

a range object

any arbitrary list object

Reference:

<https://docs.microsoft.com/en-us/python/api/azureml-train-core/azureml.train.hyperdrive.hyperdriveconfig>

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

NEW QUESTION # 144

You load data from a notebook in an Azure Machine Learning workspace into a panda's cat frame. The data contains 10.000 records. Each record consists of 10 columns.

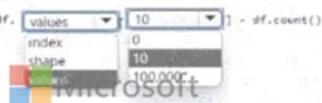
You must identify the number of missing values in each of the columns.

You need to complete the Python code that will return the number of missing values in each of the columns.

Which code segments should you use? To answer, select the appropriate options in the answer area.

NOTE: Each correct selection is worth one point.

Answer Area



```
df. values 10 ] = df.count()
index 0
shape 10
values 100,000
```

Answer:

Explanation:

Answer Area



```
df. values 10 ] = df.count()
index 0
shape 10
values 100,000
```

Explanation:

Answer Area



```
df. values 10 ] = df.count()
```

NEW QUESTION # 145

You need to replace the missing data in the AccessibilityToHighway columns.

How should you configure the Clean Missing Data module? To answer, select the appropriate options in the answer area.

NOTE: Each correct selection is worth one point.

Properties Project

▲ Clean Missing Data

Columns to be cleaned

Selected columns:

Column names: AccessibilityToHighway

Launch column selector

Minimum missing value ratio

0

Maximum missing value ratio

1

Cleaning mode

Replace using MICE
Replace with Mean
Replace with Median
Replace with Mode

Cols with all missing values.

Propagate
Remove

Generate missing value indicator column

Number of iterations

5



Answer:

Explanation:

▲ Clean Missing Data

Columns to be cleaned

Selected columns:

Column names: AccessibilityToHighway

Launch column selector

Minimum missing value ratio

0

Maximum missing value ratio

1

Cleaning mode

- Replace using MICE
- Replace with Mean
- Replace with Median
- Replace with Mode

Cols with all missing values.

- Propagate
- Remove

Generate missing value indicator column

Number of iterations

5



Explanation



Replace using MICE

Replace with Mean

Replace with Median

Replace with Mode

Cols with all missing values.

Propagate

Remove

Generate missing value indicator column

Number of iterations

5

Box 1: Replace using MICE

Replace using MICE: For each missing value, this option assigns a new value, which is calculated by using a method described in the statistical literature as "Multivariate Imputation using Chained Equations" or "Multiple Imputation by Chained Equations". With a multiple imputation method, each variable with missing data is modeled conditionally using the other variables in the data before filling in the missing values.

Scenario: The AccessibilityToHighway column in both datasets contains missing values. The missing data must be replaced with new data so that it is modeled conditionally using the other variables in the data before filling in the missing values.

Box 2: Propagate

Cols with all missing values indicate if columns of all missing values should be preserved in the output.

References:

<https://docs.microsoft.com/en-us/azure/machine-learning/studio-module-reference/clean-missing-data>

NEW QUESTION # 146

You are creating data wrangling and model training solutions in an Azure Machine Learning workspace.

You must use the same Python notebook to perform both data wrangling and model training.

You need to use the Azure Machine Learning Python SDK v2 to define and configure the Synapse Spark pool asynchronously in the workspace as dedicated compute. How should you complete the code segment? To answer, select the appropriate options in the answer area.

NOTE: Each correct selection is worth one point.

Answer Area

```
synapse_compute = SynapseSparkCompute
resource_id=synapse SparkComponent
SynapseSparkCompute
SparkResourceConfiguration
```

```
ml_client.begin_create_or_update (synapse_compute)
ml_client.from_config
ml_client.create_or_update
ml_client.begin_create_or_update
```

Answer:

Explanation:

Answer Area

```
synapse_compute = SynapseSparkCompute
resource_id=synapse SparkComponent
```

SynapseSparkCompute
SparkResourceConfiguration

```
ml_client.begin_create_or_update (synapse_compute)
ml_client.from_config
ml_client.create_or_update
ml_client.begin_create_or_update
```

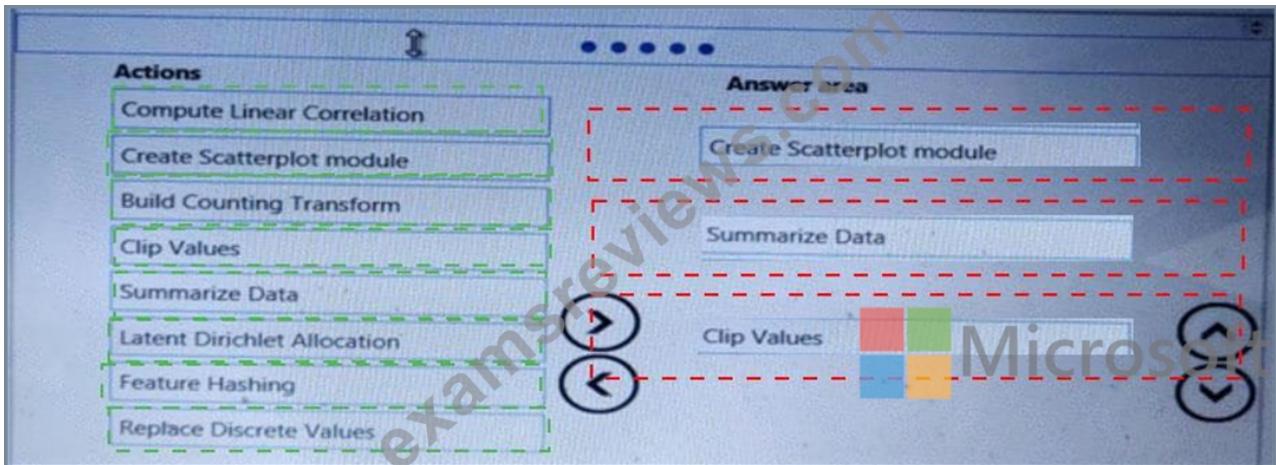
NEW QUESTION # 147

You need to visually identify whether outliers exist in the Age column and quantify the outliers before the outliers are removed. Which three Azure Machine Learning Studio modules should you use in sequence? To answer, move the appropriate modules from the list of modules to the answer area and arrange them in the correct order.

The screenshot shows the Microsoft Azure Machine Learning Studio interface. On the left, there is a list of 'Actions' with the following items: 'Compute Linear Correlation', 'Create Scatterplot module', 'Build Counting Transform', 'Clip Values', 'Summarize Data', 'Latent Dirichlet Allocation', 'Feature Hashing', and 'Replace Discrete Values'. To the right of this list is a large, semi-transparent watermark reading 'examsreviews.com'. On the far right, there is a vertical toolbar with four buttons: a top arrow, a bottom arrow, a right arrow, and a left arrow. The 'Answer area' is located at the top right of the main workspace.

Answer:

Explanation:



Explanation

Create Scatterplot

Summarize Data

Clip Values

You can use the Clip Values module in Azure Machine Learning Studio, to identify and optionally replace data values that are above or below a specified threshold. This is useful when you want to remove outliers or replace them with a mean, a constant, or other substitute value.

References:

<https://blogs.msdn.microsoft.com/azuredev/2017/05/27/data-cleansing-tools-in-azure-machine-learning/>

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

NEW QUESTION # 148

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