

100% Pass 2026 Fantastic DP-100: Designing and Implementing a Data Science Solution on Azure Test Questions



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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,
    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	Yes	No
There will be 50 runs for this hyperparameter tuning experiment.	<input type="radio"/>	<input type="radio"/>
You can use the policy parameter in the HyperDriveConfig class to specify a security policy.	<input type="radio"/>	<input type="radio"/>
The experiment will create a run for every possible value for the learning rate parameter between 0.05 and 0.15.	<input type="radio"/>	<input type="radio"/>

Answer:

Explanation:

Answer Area	Yes	No
There will be 50 runs for this hyperparameter tuning experiment.	<input type="radio"/>	<input checked="" type="radio"/>
You can use the policy parameter in the HyperDriveConfig class to specify a security policy.	<input checked="" type="radio"/>	<input type="radio"/>
The experiment will create a run for every possible value for the learning rate parameter between 0.05 and 0.15.	<input type="radio"/>	<input checked="" type="radio"/>

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 pandas DataFrame. 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:

Explanation:



Explanation:



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.

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:

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



Explanation

Cleaning mode

Microsoft

▼

- 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>

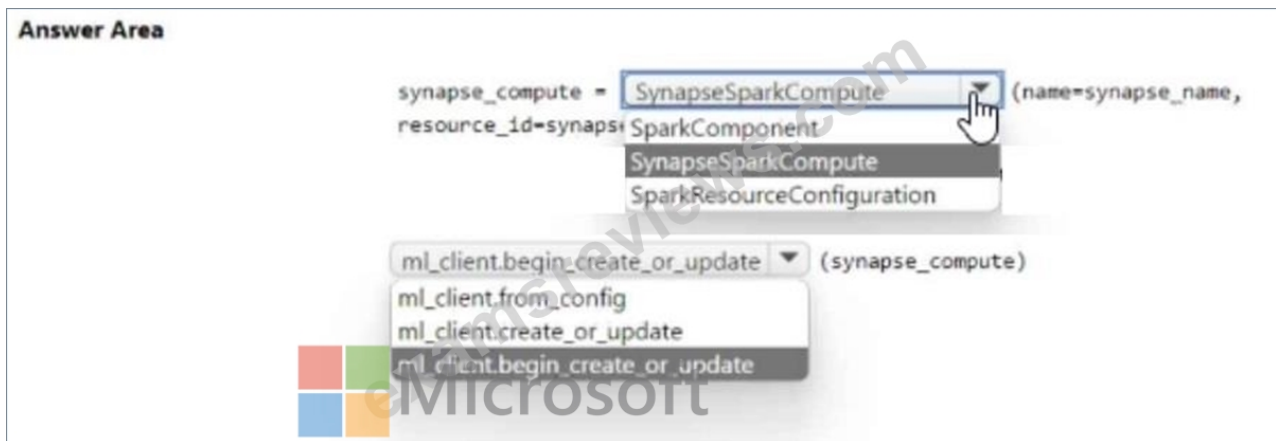
NEW QUESTION # 146

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.

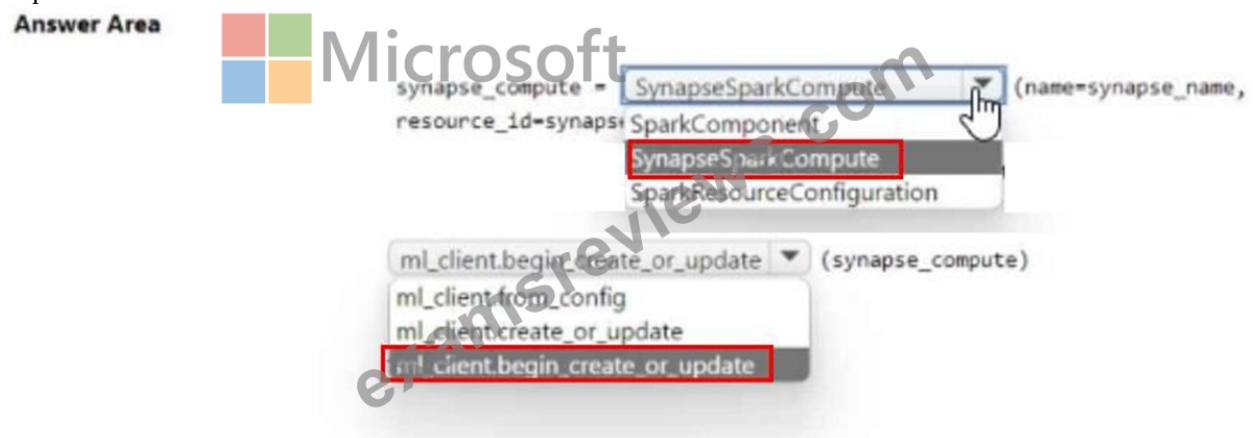
You need to use the Azure Machine Learning Python SDK v2 to define and configure the Synapse Spark pool asynchronously in the workspace as dedicated compute. How should you complete the code segment? To answer, select the appropriate options in the answer area.

NOTE: Each correct selection is worth one point.



Answer:

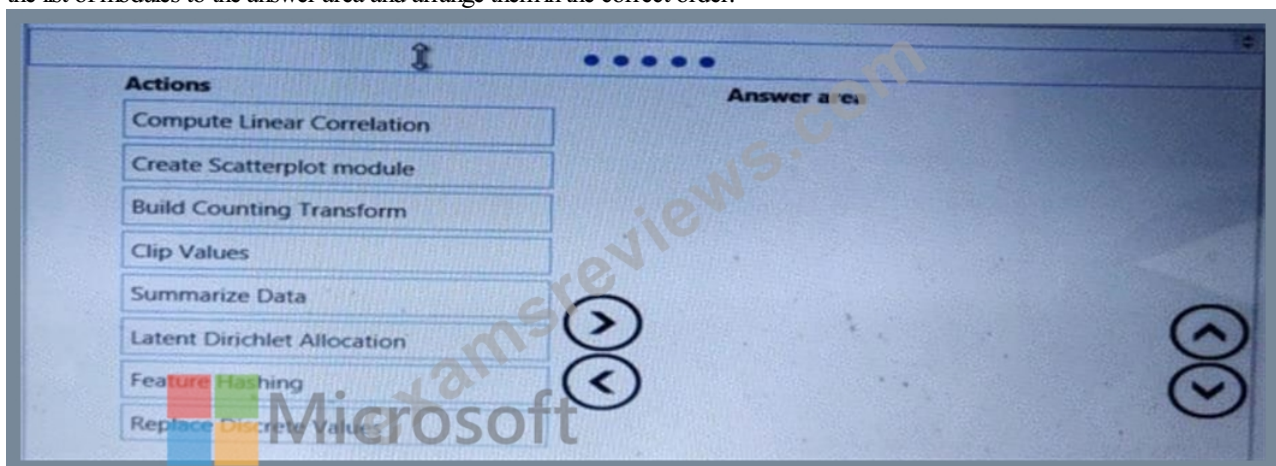
Explanation:



NEW QUESTION # 147

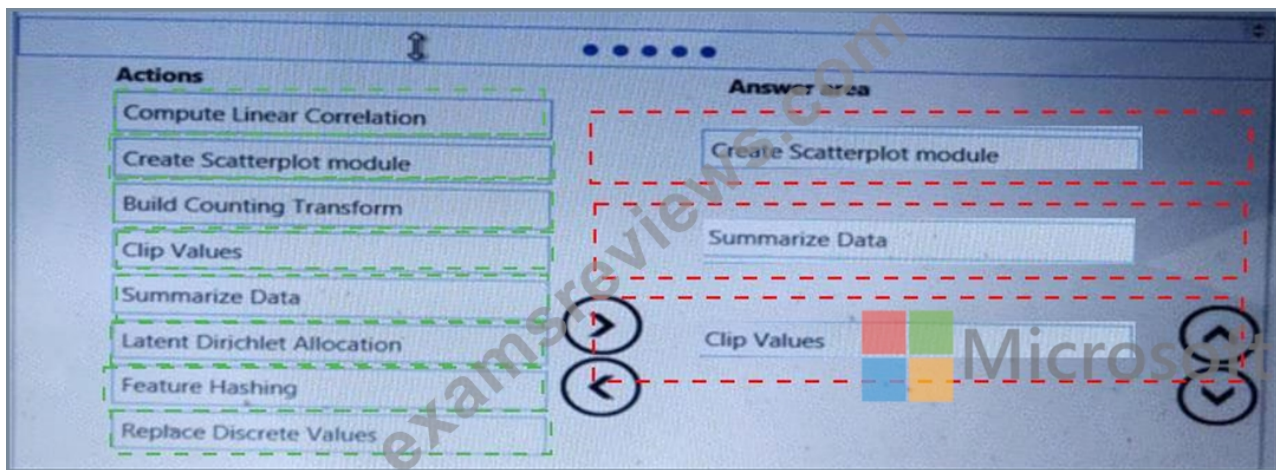
You need to visually identify whether outliers exist in the Age column and quantify the outliers before the outliers are removed.

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.



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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