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The DP-100 exam covers a wide range of topics such as data exploration and preparation, modeling, feature engineering, and optimization, among others. Candidates who pass this certification exam demonstrate their expertise in designing and implementing data science solutions using Azure services such as Azure Machine Learning, Azure Databricks, and Azure Stream Analytics. Passing the DP-100 Exam is a significant achievement for data scientists and can open up numerous career opportunities in the field of data science.

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We are proud that we have engaged in this career for over ten years and helped tens of thousands of the candidates achieve their DP-100 certifications, and our DP-100 exam questions are becoming increasingly obvious degree of helping the exam candidates with passing rate up to 98 to 100 percent. All our behaviors are aiming squarely at improving your chance of success on the DP-100 Exam and we have the strength to give you success guarantee.

Microsoft Designing and Implementing a Data Science Solution on Azure Sample Questions (Q124-Q129):

NEW QUESTION # 124

```
train_cluster = ComputeTarget(workspace=work_space, name='train-cluster')
estimator = Estimator(source_directory =
    'training-experiment',
    script_params = {'--data-folder': data_source.as_mount(), '--regularization': 0.8},
    compute_target = train_cluster,
    entry_script = 'train.py',
    conda_packages = ['scikit-learn'])
```

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

The estimator will look for the files it needs to run an experiment in the training-experiment directory of the local compute environment.

The estimator will mount the local data-folder folder and make it available to the script through a parameter.

The train.py script file will be created if it does not exist.

Yes No

This is the Yes option. The estimator will look for the files it needs to run an experiment in the training-experiment directory of the local compute environment.

Answer:

Explanation:

Answer Area

The estimator will look for the files it needs to run an experiment in the training-experiment directory of the local compute environment.

The estimator will mount the local data-folder folder and make it available to the script through a parameter.

The train.py script file will be created if it does not exist.

Yes No

This is the Yes option. The estimator will look for the files it needs to run an experiment in the training-experiment directory of the local compute environment.

NEW QUESTION # 125

You download a .csv file from a notebook in an Azure Machine Learning workspace to a data/sample.csv folder on a compute instance. The file contains 10,000 records. You must generate the summary statistics for the data in the file. The statistics must include the following for each numerical column:

- * number of non-empty values
- * average value
- * standard deviation
- * minimum and maximum values
- * 25th, 50th, and 75th percentiles

You need to complete the Python code that will generate the summary statistics.

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

```
import: CSV
import: CSV
import: numpy
import: pandas

datasample = lib.read_csv(data/sample.csv)
datasample.describe()
```

describe

Answer:

Explanation:

Answer Area

```
import: CSV
import: CSV
import: numpy
import: pandas

datasample = lib.read_csv(data/sample.csv)
datasample.describe()
```

describe

Explanation

Answer Area

```
import CSV as lib
datasample = lib.read_csv(data/sample.csv)
datasample.describe()
```



NEW QUESTION # 126

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

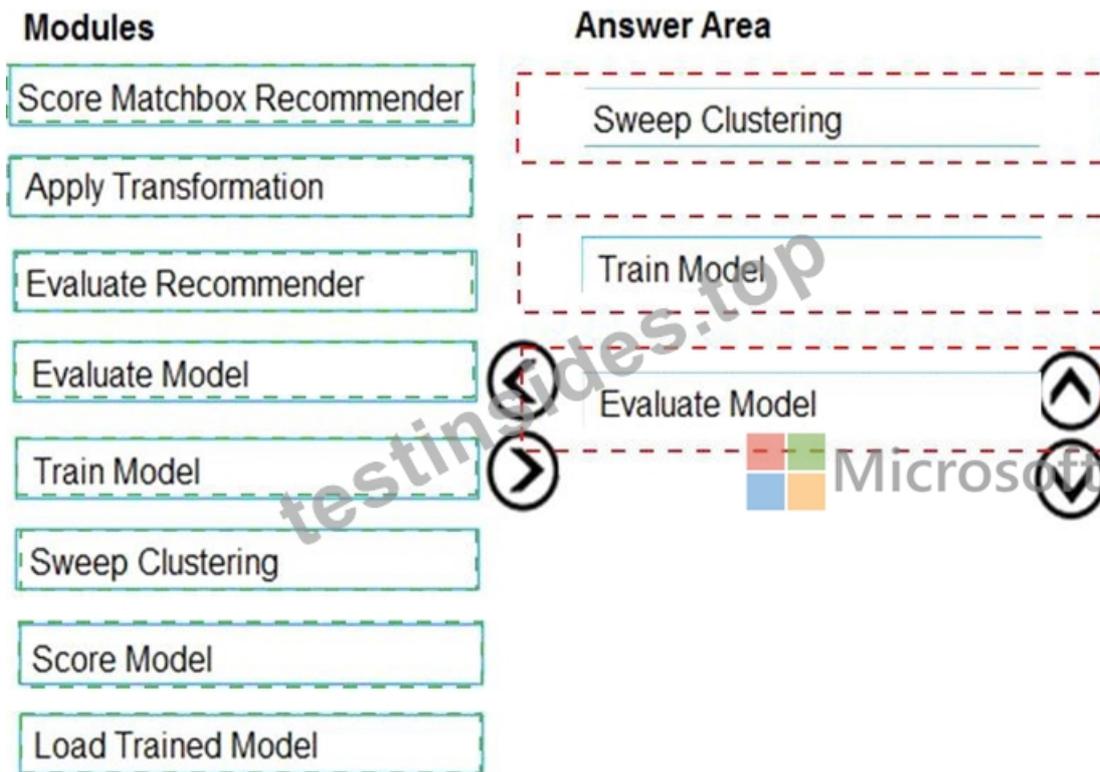
Answer Area

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

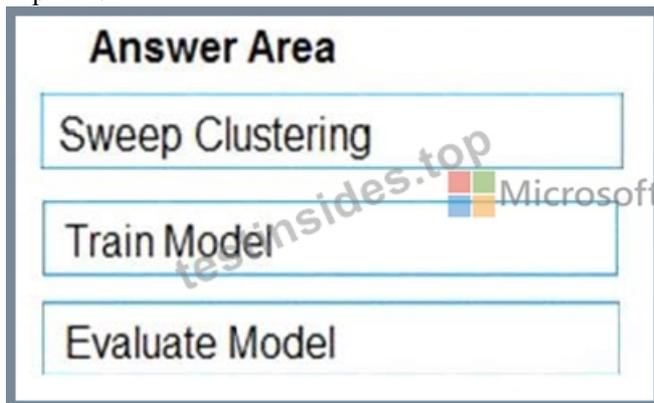


Answer:

Explanation:



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 # 127

You have an Azure Machine learning workspace. The workspace contains a dataset with data in a tabular form.

You plan to use the Azure Machine Learning SDK for Python v1 to create a control script that will load the dataset into a pandas dataframe in preparation for model training. The script will accept a parameter designating the dataset. You need to complete the script.

How should you complete the script? To answer, select the appropriate options in the answer area.

NOTE: Each correct selection is worth one point.

Answer Area



Microsoft

```
import argparse
from azureml.core import Dataset, Run
parser = argparse.ArgumentParser()
parser.add_argument("--input-data", type=str)
args = parser.parse_args()
run = Run.get_context()
ws = run.experiment.workspace
```

Code completion dropdowns for the script:

```
to_pandas_dataframe()
from_pandas_dataframe()

ds = Dataset.< get_by_id(ws, id=args.input_data) >
df = ds.< to_pandas_dataframe() >
```

Answer:

Explanation:

Answer Area

```
import argparse
from azureml.core import Dataset, Run
parser = argparse.ArgumentParser()
parser.add_argument("--input-data", type=str)
args = parser.parse_args()
run = Run.get_context()
ws = run.experiment.workspace
```

Code completion dropdowns for the script:

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ds = Dataset.< get_by_id(ws, id=args.input_data) >
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```

Explanation

Answer Area



Microsoft

```
import argparse
from azureml.core import Dataset, Run
parser = argparse.ArgumentParser()
parser.add_argument("--input-data", type=str)
args = parser.parse_args()
run = Run.get_context()
ws = run.experiment.workspace
```

Code completion dropdowns for the script:

```
ds = Dataset.< get_by_id(ws, id=args.input_data) >
df = ds.< to_pandas_dataframe() >
```

NEW QUESTION # 128

You run an automated machine learning experiment in an Azure Machine Learning workspace. Information about the run is listed in the table below:

| Experiment | Run ID | Status | Created on | Duration |
|------------------------|-----------------------|-----------|------------------------|----------|
| auto_ml_classification | AutoML_1234567890-123 | Completed | 11/11/2019 11:00:00 AM | 00:27:11 |

You need to write a script that uses the Azure Machine Learning SDK to retrieve the best iteration of the experiment run. Which

Python code segment should you use?

- A.
- B.

```
from azureml.core import Workspace
from azureml.train.automl.run import AutoMLRun
ws = Workspace.from_config()
automl_ex = ws.experiments.get('auto_ml_classification')
best_iter = list(automl_ex.get_runs())[0]
```

- C.
- D.

```
from azureml.core import Workspace
from azureml.train.automl.run import AutoMLRun
ws = Workspace.from_config()
automl_ex = ws.experiments.get('auto_ml_classification')
best_iter = list(automl_ex.get_runs())[0]
```

```
from azureml.core import Workspace
from azureml.train.automl.run import AutoMLRun
ws = Workspace.from_config()
automl_ex = ws.experiments.get('auto_ml_classification')
automl_run = AutoMLRun(automl_ex, 'AutoML_1234567890-123')
best_iter = automl_run.get_output()[0]
```

Answer: D

Explanation:

Explanation

The get_output method on automl_classifier returns the best run and the fitted model for the last invocation.

Overloads on get_output allow you to retrieve the best run and fitted model for any logged metric or for a particular iteration.

In []:

```
best_run, fitted_model = local_run.get_output()
```

Reference:

<https://notebooks.azure.com/azureml/projects/azureml-getting-started/html/how-to-use-azureml/automated-mach>

NEW QUESTION # 129

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