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Passing the Microsoft DP-100: Designing and Implementing a Data Science Solution on Azure exam is the major requirement for earning the Microsoft Certified: Azure Data Scientist Associate certification. This test measures the ability of the professionals to execute the following technical tasks: setting up an Azure Machine Learning workspace; running experiments & train models; optimizing and handling models; deploying and consuming models.

>> **Test DP-100 Dumps Demo** <<

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Microsoft Designing and Implementing a Data Science Solution on Azure Sample Questions (Q51-Q56):

NEW QUESTION # 51

You are creating a machine learning model that can predict the species of a penguin from its measurements.

You have a file that contains measurements for free species of penguin in comma delimited format.

The model must be optimized for area under the received operating characteristic curve performance metric averaged for each class. You need to use the Automated Machine Learning user interface in Azure Machine Learning studio to run an experiment and find the

best performing model.

Which five actions should you perform in sequence? To answer, move the appropriate actions from the list of actions to the answer area and arrange them in the correct order.

Actions

- Select the **Regression** task type.
- Set the Primary metric configuration setting to **AUC Weighted**.
- Create and select a new dataset by uploading the comma-delimited file of penguin data.
- Select the **Classification** task type.
- Set the Primary metric configuration setting to **Accuracy**.
- Configure the automated machine learning run by selecting the experiment name, target column, and compute target.
- Run the automated machine learning experiment and review the results.

Answer area

- Create and select a new dataset by uploading the comma-delimited file of penguin data.
- Select the **Classification** task type.
- Set the Primary metric configuration setting to **Accuracy**.
- Configure the automated machine learning run by selecting the experiment name, target column, and compute target.
- Run the automated machine learning experiment and review the results.

Microsoft

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Answer:

Explanation:

Actions

- Select the **Regression** task type.
- Set the Primary metric configuration setting to **AUC Weighted**.
- Create and select a new dataset by uploading the comma-delimited file of penguin data.
- Select the **Classification** task type.
- Set the Primary metric configuration setting to **Accuracy**.
- Configure the automated machine learning run by selecting the experiment name, target column, and compute target.
- Run the automated machine learning experiment and review the results.

Answer area

- Create and select a new dataset by uploading the comma-delimited file of penguin data.
- Select the **Classification** task type.
- Set the Primary metric configuration setting to **Accuracy**.
- Configure the automated machine learning run by selecting the experiment name, target column, and compute target.
- Run the automated machine learning experiment and review the results.

Microsoft

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Explanation:

Actions

- Select the **Regression** task type.
- Set the Primary metric configuration setting to **AUC Weighted**.

Answer area

- 1. Create and select a new dataset by uploading the comma-delimited file of penguin data.
- 2. Select the **Classification** task type.
- 3. Set the Primary metric configuration setting to **Accuracy**.
- 4. Configure the automated machine learning run by selecting the experiment name, target column, and compute target.
- 5. Run the automated machine learning experiment and review the results.

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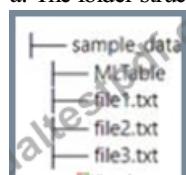
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NEW QUESTION # 52

You manage an Azure Machine Learning workspace named workspace1 by using the Python SDK v2.

The default datastore of workspace1 contains a folder named sample_dat

a. The folder structure contains the following content:



You write Python SDK v2 code to materialize the data from the files in the sample.data folder into a Pandas data frame. You need to complete the Python SDK v2 code to use the MLTable folder as the materialization blueprint. How should you complete the code? To answer, select the appropriate options in the answer area.

NOTE: Each correct selection is worth one point.

Answer Area

```
import mltable
tbl = mltable.load("./sample_data/MLTable")
df = tbl.to_pandas()
```

Microsoft

Up ▲

Down ▼

Answer:

Explanation:

Answer Area



```
import mltable
tbl = mltable.load("./sample_data/MLTable")
df = tbl.to_pandas()
tbl.load("./sample_data")
tbl.save("./sample_data/MLTable")
tbl.take("./sample_data/file*.txt")
```

NEW QUESTION # 53

You create an Azure Machine Learning model to include model files and a scoring script. You must deploy the model. The deployment solution must meet the following requirements:

- * Provide near real-time inferencing.
- * Enable endpoint and deployment level cost estimates.
- * Support logging to Azure Log Analytics.

You need to configure the deployment solution.

What should you configure? To answer, select the appropriate options in the answer area.

NOTE: Each correct selection is worth one point.

Answer Area

Requirement	Value
Endpoint type	Managed online Managed online Kubernetes online Batch
Deployment component	Docker image Docker image Azure Container Instances (ACI) Azure Kubernetes Service (AKS) cluster

Answer:

Explanation:

Answer Area

Requirement	Value
Endpoint type	Managed online Managed online Kubernetes online Batch
Deployment component	Docker image Docker image Azure Container Instances (ACI) Azure Kubernetes Service (AKS) cluster

Explanation:

Answer Area

Requirement	Value
Endpoint type	Managed online
Deployment component	Docker image

NEW QUESTION # 54

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 new experiment in Azure Machine Learning Studio.

One class has a much smaller number of observations than the other classes in the training set.

You need to select an appropriate data sampling strategy to compensate for the class imbalance.

Solution: You use the Principal Components Analysis (PCA) sampling mode.

Does the solution meet the goal?

- A. Yes
- B. No

Answer: B

Explanation:

Instead use the Synthetic Minority Oversampling Technique (SMOTE) sampling mode.

Note: SMOTE is used to increase the number of underrepresented cases in a dataset used for machine learning. SMOTE is a better way of increasing the number of rare cases than simply duplicating existing cases.

Incorrect Answers:

The Principal Component Analysis module in Azure Machine Learning Studio (classic) is used to reduce the dimensionality of your training data. The module analyzes your data and creates a reduced feature set that captures all the information contained in the dataset, but in a smaller number of features.

Reference:

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

<https://docs.microsoft.com/en-us/azure/machine-learning/studio-module-reference/principal-component-analysis>

NEW QUESTION # 55

You plan to implement an Azure Machine Learning solution. You have the following requirements:

* Run a Jupyter notebook to interactively train a machine learning model.

* Deploy assets and workflows for machine learning proof of concept by using scripting rather than custom programming.

You need to select a development technique for each requirement.

Which development technique should you use? To answer, select the appropriate options in the answer area.

NOTE: Each correct selection is worth one point.

Answer Area

Requirement

Run a Jupyter notebook to interactively train a machine learning model.

Development tool

- Azure Machine Learning Python SDK
- Azure CLI
- Azure Machine Learning studio
- Azure Machine Learning Python SDK**
- Azure Machine Learning REST

Deploy assets and workflows for machine learning proof of concept by using scripting rather than custom programming.

- Azure CLI
- Azure Machine Learning studio
- Azure Machine Learning Python SDK
- Azure Machine Learning REST

Answer:

Explanation:

Answer Area

Requirement

Run a Jupyter notebook to interactively train a machine learning model.

Development tool

- Azure Machine Learning Python SDK
- Azure CLI
- Azure Machine Learning studio
- Azure Machine Learning Python SDK**
- Azure Machine Learning REST

Deploy assets and workflows for machine learning proof of concept by using scripting rather than custom programming.

- Azure CLI**
- Azure Machine Learning studio
- Azure Machine Learning Python SDK
- Azure Machine Learning REST

Explanation



NEW QUESTION # 56

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