



Free Questions for DP-100 by dumpshq

Shared by David on 22-07-2024

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Question 1

Question Type: Hotspot

You are using The Azure Machine Learning designer to transform a dataset containing the census data of all nations.

You must use the Split Data component to separate the dataset into two datasets. The first dataset must contain the census data of the United States. The second dataset must include the census data of the remaining nations.

You need to configure the component to create the datasets.

Which configuration values should you use? To answer, select the appropriate options in the answer area.

NOTE: Each correct selection is worth one point.

Answer Area

Answer:

Configuration setting

Splitting mode

Configuration value

Regular expression
Regular expression
Relative expression
Split rows

Splitting mode value

\ "nation" USA
\"nation" USA
\"nation" ^[USA]
\"nation" \$[USA]

Question 2

Question Type: Hotspot

You create an Azure Machine Learning workspace and install the MLflow library.

You need to tag different types of data by using the MLflow library.

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

NOTE: Each correct selection is worth one point.

Answer Area

Answer:

matplotlib plot

Log data

MLflow library metho

log_image

log_metric

log_text

log_image

log_figure

log_metric

log_metric

log_text

log_image

log_figure

Question 3

Question Type: MultipleChoice

boolean value

You are implementing hyperparameter tuning by using Bayesian sampling for an Azure ML Python SDK v2-based model training from a notebook. The notebook is in an Azure Machine Learning workspace. The notebook uses a training script that runs on a compute cluster with 20 nodes.

The code implements Bandit termination policy with `slack_factor` set to 0.2 and a sweep job with `max_concurrent_trials` set to 10.

You must increase effectiveness of the tuning process by improving sampling convergence.

You need to select which sampling convergence to use.

What should you select?

Options:

- A- Set the value of slack_factor of early_termination policy to 0.1.
- B- Set the value of max_concurrent_trials to 4.
- C- Set the value of slack_factor of early_termination policy to 0.9.
- D- Set the value of max_concurrent_trials to 20.

Answer:

C

Question 4

Question Type: MultipleChoice

You create a workspace by using Azure Machine Learning Studio.

You must run a Python SDK v2 notebook in the workspace by using Azure Machine Learning Studio. You must preserve the current values of variables set in the notebook for the current instance.

You need to maintain the state of the notebook.

What should you do?

Options:

- A- Change the compute.
- B- Change the current kernel
- C- Stop the compute.
- D- Stop the current kernel.

Answer:

B

Question 5

Question Type: OrderList

You create an Azure Machine Learning workspace. You are training a classification model with no-code AutoML in Azure Machine Learning studio.

The model must predict if a client of a financial institution will subscribe to a fixed-term deposit. You must identify the feature that has the most influence on the predictions of the model for the second highest scoring algorithm. You must minimize the effort and time to identify the feature.

You need to complete the identification.

Which three 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

Display the individual feature importance graph.

Select the second from the last algorithm on the list of the automated ML job models.

Select the second algorithm on the list of the automated ML job models.

Select the Explain model option.

Display the aggregate feature importance chart.



Answer area

Answer:

Display the Explain model option in the list...
Display the aggregate feature importance...

Question 6

Question Type: Hotspot

You use Azure Machine Learning to implement hyperparameter tuning for an Azure ML Python SDK v2-based model training. Training runs must terminate when the primary metric is lowered by 25 percent or more compared to the best performing run.

You need to configure an early termination policy to terminate training jobs.

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

NOTE: Each correct selection is worth one point.

Answer Area

Answer:

Early termination policy setting

Termination policy type

Value

Bandit	<input type="checkbox"/>
Bandit	<input checked="" type="checkbox"/>
Median stopping	<input type="checkbox"/>
Truncation selection	<input type="checkbox"/>
slack_factor	<input type="checkbox"/>
max_value	<input type="checkbox"/>
slack_factor	<input checked="" type="checkbox"/>
truncation_percentage	<input type="checkbox"/>

Termination policy parameter

Question 7

Question Type: Hotspot

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

You must create a compute cluster in the workspace. The compute cluster must run workloads and properly handle interruptions. You start by calculating the maximum amount of compute resources required by the workloads and size the cluster to match the calculations.

The cluster definition includes the following properties and values:

* name="mlcluster1"

* size="STANDARD.DS3.v2"

* min_instances=1

* max_instances=4

* tier="dedicated"

The cost of the compute resources must be minimized when a workload is active or idle. Cluster property changes must not affect the maximum amount of compute resources available to the workloads run on the cluster.

You need to modify the cluster properties to minimize the cost of compute resources.

Which properties should you modify? To answer, select the appropriate options in the answer area.

NOTE: Each correct selection is worth one point.

Answer Area

Answer:

Workload status

active

Property

size

size

tier

max_instances

idle

min_instances

size

min_instances

max_instances

Question 8

Question Type: Hotspot

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

Development tool

Answer:

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

Azure Machine Learning Python SDK

Azure CLI

Azure Machine Learning studio

Azure Machine Learning Python SDK

Azure Machine Learning REST

Question 9

Question Type: MultipleChoice

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

Azure CLI

Azure CLI

Azure Machine Learning studio

Azure Machine Learning Python SDK

Azure Machine Learning REST

You manage an Azure Machine Learning workspace named workspaces

You must develop Python SDK v2 code to attach an Azure Synapse Spark pool as a compute target in workspaces. The code must invoke the constructor of the SynapseSparkCompute class.

You need to invoke the constructor.

What should you use?

Options:

A- Synapse workspace web URL and Spark pool name

B- resource ID of the Synapse Spark pool and a user-defined name

- C- pool URL of the Synapse Spark pool and a system-assigned name
- D- Synapse workspace name and workspace web URL

Answer:

B

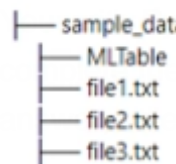
Question 10

Question Type: Hotspot

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_data

a. The folder structure contains the following content:



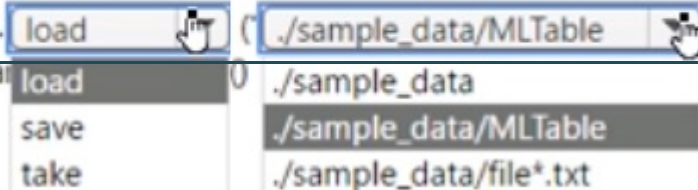
Python SDK v2 code to materialize the data from the files in the sample_data folder into a Pandas data frame. You need to use Python SDK v2 code to use the MLTable folder as the materialization blueprint. How should you complete the code? To do this, select the appropriate options in the answer area.

NOTE: Each correct selection is worth one point.

Answer Area

Answer:

```
import mtable
tbl = mtable.load("./sample_data/MTable")
df = tbl.to_dataframe()
```



Question 11

Question Type: MultipleChoice

You create an Azure Machine Learning pipeline named pipeline 1 with two steps that contain Python scripts. Data processed by the first step is passed to the second step.

You must update the content of the downstream data source of pipeline 1 and run the pipeline again.

You need to ensure the new run of pipeline 1 fully processes the updated content.

Solution: Change the value of the compute.target parameter of the PythonScriptStep object in the two steps.

Does the solution meet the goal?

Options:

A- Yes

B- No

Answer:

B

Question 12

Question Type: MultipleChoice

You create an Azure Machine Learning pipeline named pipeline1 with two steps that contain Python scripts. Data processed by the first step is passed to the second step.

You must update the content of the downstream data source of pipeline1 and run the pipeline again

You need to ensure the new run of pipeline1 fully processes the updated content.

Solution: Set the allow_reuse parameter of the PythonScriptStep object of both steps to False

Does the solution meet the goal?

Options:

A- Yes

B- No

Answer:

B

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