

# Microsoft's Exam Questions for DP-100 Help You Achieve Success in Your First Attempt



## MICROSOFT DP-100 CERTIFICATION EXAM QUESTIONS AND ANSWERS PDF

Microsoft DP-100 Exam



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### Microsoft Designing and Implementing a Data Science Solution on Azure Sample Questions (Q325-Q330):

#### NEW QUESTION # 325

You have several machine learning models registered in an Azure Machine Learning workspace.

You must use the Fairlearn dashboard to assess fairness in a selected model.

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	Answer Area
Select a binary classification or regression model.	
Select a metric to be measured.	
Select a multiclass classification model.	
Select a model feature to be evaluated.	
Select a clustering model.	

**Answer:**

Explanation:

Actions	Answer Area
Select a binary classification or regression model.	Select a model feature to be evaluated.
Select a metric to be measured.	Select a binary classification or regression model.
Select a multiclass classification model.	Select a metric to be measured.
Select a model feature to be evaluated.	
Select a clustering model.	

Reference:

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

#### NEW QUESTION # 326

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 have an Azure Machine Learning workspace.

You plan to tune model hyperparameters by using a sweep job.

You need to find a sampling method that supports early termination of low-performance jobs and continuous hyperparameters.

Solution: Use the Sobol sampling method over the hyperparameter space.

Does the solution meet the goal?

- A. Yes
- B. No

Answer: B

### NEW QUESTION # 327

You use Azure Machine Learning to train a machine learning model.

You use the following training script in Python to perform logging:

```
import mlflow
mlflow.log_metric("accuracy", float(val_accuracy))
```

You must use a Python script to define a sweep job.

You need to provide the primary metric and goal you want hyperparameter tuning to optimize.

NOTE: Each correct selection is worth one point.

**Answer Area**

```
from azure.ai.ml.sweep import Uniform, Choice
command_job_for_sweep = command_job(
    learning_rate=Uniform(min_value=0.05, max_value=0.1),
    batch_size=Choice(values=[16, 32, 64, 128]),
)
sweep_job = command_job_for_sweep.sweep(
    compute="cpu-cluster",
    sampling_algorithm="bayesian",
    primary_metric="val_accuracy",
    goal="Maximize",
)
```

The image shows a dropdown menu for the `primary_metric` parameter, with the following options: `val_accuracy`, `accuracy`, `val_accuracy`, and `test-multi_logloss`. The `goal` parameter is set to `Maximize`.

Answer:

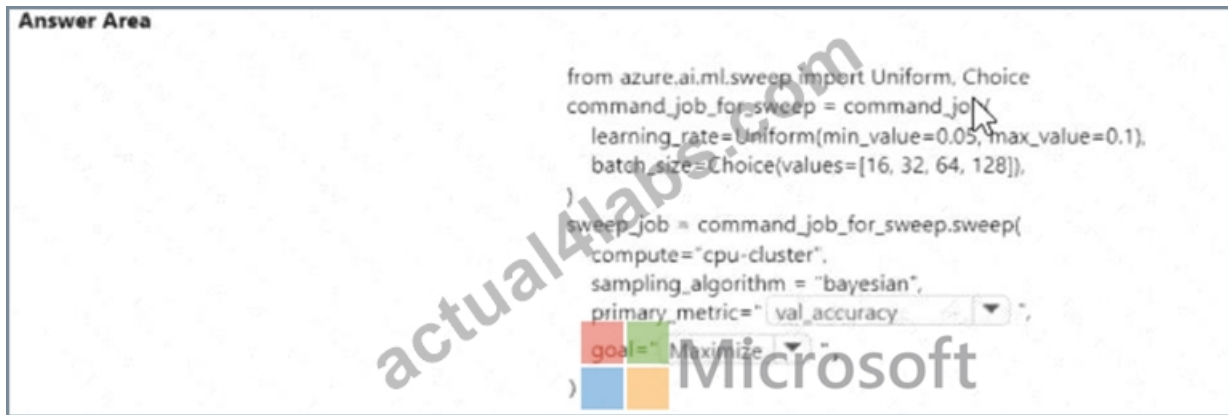
Explanation:

**Answer Area**

```
from azure.ai.ml.sweep import Uniform, Choice
command_job_for_sweep = command_job(
    learning_rate=Uniform(min_value=0.05, max_value=0.1),
    batch_size=Choice(values=[16, 32, 64, 128]),
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sweep_job = command_job_for_sweep.sweep(
    compute="cpu-cluster",
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    primary_metric="val_accuracy",
    goal="Maximize",
)
```

The image shows a dropdown menu for the `primary_metric` parameter, with the following options: `val_accuracy`, `accuracy`, `val_accuracy`, and `test-multi_logloss`. The `goal` parameter is set to `Maximize`.

Explanation:



### NEW QUESTION # 328

You use Azure Machine Learning to train a model based on a dataset named dataset1.

You define a dataset monitor and create a dataset named dataset2 that contains new data.

You need to compare dataset1 and dataset2 by using the Azure Machine Learning SDK for Python.

Which method of the DataDriftDetector class should you use?

- A. get
- B. update
- C. run
- D. backfill

**Answer: D**

**Explanation:**

A backfill run is used to see how data changes over time.

**Reference:**

<https://docs.microsoft.com/en-us/python/api/azureml-datadrift/azureml.datadrift.datadriftdetector.datadriftdetector>

### NEW QUESTION # 329

space and set up a development environment. You plan to train a deep neural network (DNN) by using the Tensorflow framework and by using estimators to submit training scripts.

You must optimize computation speed for training runs.

You need to choose the appropriate estimator to use as well as the appropriate training compute target configuration.

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**

Parameter	Value
Estimator	<div>Estimator</div> <div>SKLearn</div> <div>PyTorch</div> <div>Tensorflow</div> <div>Chainer</div>
Training compute	<div>12 vCPU, 48 GB memory, 96 GB SSD</div> <div>12 vCPU, 112 GB memory, 680 GB SSD, 2 GPU, 24 GB GPU memory</div> <div>16 vCPU, 428 GB memory, 160 GB HDD, 80 GB NVME disk (4000 MBps)</div> <div>44 vCPU, 352 GB memory, 3.4 GHz CPU frequency all cores</div>

These are the selections for training compute.

**Answer:**

**Explanation:**

