



DP-100^{Q&As}

Designing and Implementing a Data Science Solution on Azure

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QUESTION 1

You create a multi-class image classification deep learning model that uses the PyTorch deep learning framework.

You must configure Azure Machine Learning Hyperdrive to optimize the hyperparameters for the classification model.

You need to define a primary metric to determine the hyperparameter values that result in the model with the best accuracy score.

Which three actions must you perform? Each correct answer presents part of the solution.

NOTE: Each correct selection is worth one point.

- A. Set the `primary_metric_goal` of the estimator used to run the `bird_classifier_train.py` script to maximize.
- B. Add code to the `bird_classifier_train.py` script to calculate the validation loss of the model and log it as a float value with the key `loss`.
- C. Set the `primary_metric_goal` of the estimator used to run the `bird_classifier_train.py` script to minimize.
- D. Set the `primary_metric_name` of the estimator used to run the `bird_classifier_train.py` script to `accuracy`.
- E. Set the `primary_metric_name` of the estimator used to run the `bird_classifier_train.py` script to `loss`.
- F. Add code to the `bird_classifier_train.py` script to calculate the validation accuracy of the model and log it as a float value with the key `accuracy`.

Correct Answer: ADF

AD:

```
primary_metric_name="accuracy",
```

```
primary_metric_goal=PrimaryMetricGoal.MAXIMIZE
```

Optimize the runs to maximize "accuracy". Make sure to log this value in your training script.

Note:

`primary_metric_name`: The name of the primary metric to optimize. The name of the primary metric needs to exactly match the name of the metric logged by the training script. `primary_metric_goal`: It can be either

`PrimaryMetricGoal.MAXIMIZE` or `PrimaryMetricGoal.MINIMIZE` and determines whether the primary metric will be maximized or minimized when evaluating the runs.

F: The training script calculates the `val_accuracy` and logs it as "accuracy", which is used as the primary metric.

QUESTION 2

You have been tasked with constructing a machine learning model that translates language text into a different language text.

The machine learning model must be constructed and trained to learn the sequence of the.



Recommendation: You make use of Generative Adversarial Networks (GANs).

Will the requirements be satisfied?

A. Yes

B. No

Correct Answer: B

QUESTION 3

You are retrieving data from a large datastore by using Azure Machine Learning Studio.

You must create a subset of the data for testing purposes using a random sampling seed based on the system clock.

You add the Partition and Sample module to your experiment.

You need to select the properties for the module.

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

NOTE: Each correct selection is worth one point.

Hot Area:



Answer Area

Partition and Sample

Partition or sample mode

	▼
Assign to Folds	
Pick Fold	
Sampling	
Head	

Rate of sampling

Random seed for sampling

	▼
0	
1	
time.clock()	
utcNow()	

Stratified split for sampling

Correct Answer:



Answer Area

Partition and Sample

Partition or sample mode

	▼
Assign to Folds	
Pick Fold	
Sampling	
Head	

Rate of sampling

Random seed for sampling

	▼
0	
1	
time.clock()	
utcNow()	

Stratified split for sampling

Box 1: Sampling Create a sample of data This option supports simple random sampling or stratified random sampling. This is useful if you want to create a smaller representative sample dataset for testing.

1.

Add the Partition and Sample module to your experiment in Studio, and connect the dataset.

2.

Partition or sample mode: Set this to Sampling.

3.

Rate of sampling. See box 2 below.

Box 2: 0

3. Rate of sampling. Random seed for sampling: Optionally, type an integer to use as a seed value.

This option is important if you want the rows to be divided the same way every time. The default value is 0, meaning that a starting seed is generated based on the system clock. This can lead to slightly different results each time you run the experiment.



References: <https://docs.microsoft.com/en-us/azure/machine-learning/studio-module-reference/partition-and-sample>

QUESTION 4

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?

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.

Correct Answer: C

QUESTION 5

DRAG DROP

You have a dataset that contains over 150 features. You use the dataset to train a Support Vector Machine (SVM) binary classifier.

You need to use the Permutation Feature Importance module in Azure Machine Learning Studio to compute a set of feature importance scores for the dataset.

In which order should you perform the actions? To answer, move all actions from the list of actions to the answer area and arrange them in the correct order.

Select and Place:



Add a Split Data module to create training and test datasets.	
Set the Metric for measuring performance property to Classification – Accuracy and then run the experiment	
Add a Permutation Feature importance module and connect the trained model and test dataset.	
Add a dataset to the experiment.	
Add a Two-class Support Vector Machine module to initialize the SVM classifier.	

Correct Answer:

	Add a Two-class Support Vector Machine module to initialize the SVM classifier.
	Add a dataset to the experiment.
	Add a Split Data module to create training and test datasets.
	Add a Permutation Feature importance module and connect the trained model and test dataset.
	Set the Metric for measuring performance property to Classification – Accuracy and then run the experiment

Step 1: Add a Two-Class Support Vector Machine module to initialize the SVM classifier.

Step 2: Add a dataset to the experiment

Step 3: Add a Split Data module to create training and test dataset.

To generate a set of feature scores requires that you have an already trained model, as well as a test dataset.

Step 4: Add a Permutation Feature Importance module and connect to the trained model and test dataset.

Step 5: Set the Metric for measuring performance property to Classification - Accuracy and then run the experiment.

Reference:

<https://docs.microsoft.com/en-us/azure/machine-learning/studio-module-reference/two-class-support-vector-machine>

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



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