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Microsoft Designing and Implementing a Data Science Solution on Azure Sample Questions (Q161-Q166):

NEW QUESTION # 161
An organization creates and deploys a multi-class image classification deep learning model that uses a set of labeled photographs.

The software engineering team reports there is a heavy inferencing load for the prediction web services during the summer. The production web service for the model fails to meet demand despite having a fully-utilized compute cluster where the web service is deployed.

You need to improve performance of the image classification web service with minimal downtime and minimal administrative effort. What should you advise the IT Operations team to do?

- A. Create a new compute cluster by using larger VM sizes for the nodes, redeploy the web service to that cluster, and update the DNS registration for the service endpoint to point to the new cluster.
- B. Increase the VM size of nodes in the compute cluster where the web service is deployed.
- C. Increase the minimum node count of the compute cluster where the web service is deployed.
- D. Increase the node count of the compute cluster where the web service is deployed.

Answer: D

NEW QUESTION # 162

You need to use the Python language to build a sampling strategy for the global penalty detection models.

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

NOTE: Each correct selection is worth one point.

```
import pytorch as deeplearninglib
import tensorflow as deeplearninglib
import cntk as deeplearninglib
```

```
train_smapler = deeplearminglib.DistributedSampler.(penalty_video_dataset)
train_sampler = deeplearminglib.log_uniform_candidate_sampler.(penalty_video_dataset)
train_sampler = deeplearninglib.WeightedRandomSampler.(penalty_video_dataset)
train_sampler = deeplearninglib.all_candidate_sampler.(penalty_video_dataset)
...
train loader –

...
(train_smapler, penalty_video_dataset)
```

```
optimizer = deeplearninglib.optim.SGD(model.parameters().lr=0,01)
optimizer = deeplearninglib.train.GradientDescentOptimizer(learning_rate=0.10)
```

```
model = deeplearninglib.parallel.Distributed(DataParallel(model)
model = deeplearninglib.nn.parallel.DistributedDataParallelCPU(model)
model = deeplearninglib.keras.Model([
model = deeplearninglib.keras.Sequental([
...
train_sampler.set_epoch(epoch)
    for data, target in train_loader:
        data, target = data.to(device), target.to(device)
```

Answer:

Explanation:

```
▼
import pytorch as deeplearninglib
import tensorflow as deeplearninglib
import cntk as deeplearninglib
```

```
                                                                        ▼
train_smapler = deeplearninglib.DistributedSampler.(penalty_video_dataset)
train_sampler = deeplearninglib.log_uniform_candidate_sampler.(penalty_video_dataset)
train_sampler = deeplearninglib.WeightedRandomSampler.(penalty_video_dataset)
train_sampler = deeplearninglib.all_candidate_sampler.(penalty_video_dataset)
...
train loader -
...
(train_smapler, penalty_video_dataset)
```

```
                                                                        ▼
optimizer = deeplearninglib.optim.SGD(model.parameters().lr=0,01)
optimizer = deeplearninglib.train.GradientDescentOptimizer(learning_rate=0.10)
```

```
                                                            ▼
model = deeplearninglib.parallel.Distributed(DataParallel(model)
model = deeplearninglib.nn.parallel.DistributedDataParallelCPU(model)
model = deeplearninglib.keras.Model([
model = deeplearninglib.keras.Sequental([
...
train_sampler.set_epoch(epoch)
  for data, target in train_loader:
       data, target = data.to(device), target.to(device)
```

Explanation:
Box 1: import pytorch as deeplearninglib
Box 2: ..DistributedSampler(Sampler)..
DistributedSampler(Sampler):
Sampler that restricts data loading to a subset of the dataset.
It is especially useful in conjunction with class:`torch.nn.parallel.DistributedDataParallel`. In such case, each process can pass a DistributedSampler instance as a DataLoader sampler, and load a subset of the original dataset that is exclusive to it.
Scenario: Sampling must guarantee mutual and collective exclusively between local and global segmentation models that share the same features.
Box 3: optimizer = deeplearninglib.train. GradientDescentOptimizer(learning_rate=0.10) Incorrect Answers: ..SGD..
Scenario: All penalty detection models show inference phases using a Stochastic Gradient Descent (SGD) are running too slow.
Box 4: .. nn.parallel.DistributedDataParallel..
DistributedSampler(Sampler): The sampler that restricts data loading to a subset of the dataset.
It is especially useful in conjunction with :class:`torch.nn.parallel.DistributedDataParallel`.
References:
https://github.com/pytorch/pytorch/blob/master/torch/utils/data/distributed.py

NEW QUESTION # 163
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 using Azure Machine Learning to run an experiment that trains a classification model.
You want to use Hyperdrive to find parameters that optimize the AUC metric for the model. You configure a HyperDriveConfig for the experiment by running the following code:

```
hyperdrive = HyperDriveConfig(estimator=your_estimator,
  hyperparameter_sampling=your_params,
  policy=policy,
  primary_metric_name='AUC',
  primary_metric_goal=PrimaryMetricGoal.MAXIMIZE,
  max_total_runs=6,
  max_concurrent_runs=4)
```

You plan to use this configuration to run a script that trains a random forest model and then tests it with validation dat a. The label values for the validation data are stored in a variable named y_test variable, and the predicted probabilities from the model are stored in a variable named y_predicted.
Solution: Run the following code:

```
import numpy as np
from sklearn.metrics import roc_auc_score
from azureml.core.run import Run
run = Run.get_context()
# code to train model omitted
auc = roc_auc_score(y_test, y_predicted)
run.log("AUC", np.float(auc))
```

Does the solution meet the goal?

- A. Yes
- B. No

Answer: A

NEW QUESTION # 164
You build and manage a model by using Azure Machine Learning workspace.
Before you deploy the model, you must create a Responsible Al dashboard in Azure Machine Learning studio. The dashboard must provide observation of the following:
* metrics that show real-world impact on an outcome of interest due to taking a treatment policy
* examples with minimal changes to a particular data point such that the model's prediction changes You need to implement the components for the Responsible Al dashboard.
Which components should you implement? To answer, move the appropriate components to the correct observations. You may use each component once, more than once, or not at all. You may need to move the split bar between panes or scroll to view content.
NOTE: Each correct selection is worth one point.

Answer:

Explanation:

NEW QUESTION # 165
You create an Azure Machine Learning workspace. You are implementing hyperparameter tuning for a model training from a

notebook.

You must configure a Bandit termination policy that provides the following outcome:

If the value of the primary metric of AUC is 0.8 at the point of evaluation intervals, any run with the primary metric value below 0.66 will be terminated.

You need to identify which Bandit termination policy configuration to use.

What should you identify?

- A. Set slack_amount to 0.2.
- B. Set slack_factor to 0.2.
- C. Set slack_factor to 0.1.
- D. Set slack_amount to 0.1.

Answer: B

Explanation:
https://learn.microsoft.com/en-us/azure/machine-learning/how-to-tune-hyperparameters?view=azureml-api-2#bandit-policy

NEW QUESTION # 166

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