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## Microsoft Designing and Implementing a Data Science Solution on Azure Sample Questions (Q472-Q477):

### NEW QUESTION # 472

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_smampler = 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_smampler, penalty_video_datasets)
```

```
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.Sequential([
...
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_sampler = 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_sampler, 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.Sequential([
```

```
...
train_sampler.set_epoch(epoch)
for data, target in train_loader:
    data, target = data.to(device), target.to(device)
```

Explanation

```

import torch as deeplearninglib
import tensorflow as deeplearninglib
import cntk as deeplearninglib

train_sampler = 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_sampler, 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.Sequential([

```

Box 1: import torch 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 exclusivity between local and global segmentation models that share the same features.

Box 3: optimizer = deeplearninglib.train.GradientDescentOptimizer(learning\_rate=0.10)

### NEW QUESTION # 473

You manage an Azure Machine Learning workspace. You create an experiment named experiment1 by using the Azure Machine Learning Python SDK v2 and MLflow.

```

runs = mlflow.search_runs(
    experiment_names=["experiment1"],
    max_results=5,
    order_by=["start_time ASC"])

runs[runs.status == "FAILED"]

```

For each of the following statements, select Yes if the statement is true. Otherwise, select No.

Answer Area

#### Statements

Aborted runs are returned.

Yes

No

The latest five experiment runs are returned.



The jobs that are returned have been canceled or killed by the user or system.



All metrics and their values are returned for the returned experiment runs.



Answer:

Explanation:

Answer Area	Microsoft	Yes	No
<b>Statements</b>			
Aborted runs are returned.		<input type="radio"/>	<input type="radio"/>
The latest five experiment runs are returned.		<input checked="" type="radio"/>	<input type="radio"/>
The jobs that are returned have been canceled or killed by the user or system.		<input type="radio"/>	<input type="radio"/>
All metrics and their values are returned for the returned experiment runs.		<input type="radio"/>	<input type="radio"/>

Explanation:

Answer Area	Microsoft	Yes	No
<b>Statements</b>			
Aborted runs are returned.		<input type="radio"/>	<input checked="" type="radio"/>
The latest five experiment runs are returned.		<input checked="" type="radio"/>	<input type="radio"/>
The jobs that are returned have been canceled or killed by the user or system.		<input type="radio"/>	<input checked="" type="radio"/>
All metrics and their values are returned for the returned experiment runs.		<input type="radio"/>	<input checked="" type="radio"/>

### NEW QUESTION # 474

Hotspot Question

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.



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

#### Development tool

Development tool
<input type="checkbox"/>
<input type="checkbox"/> Azure CLI
<input type="checkbox"/> Azure Machine Learning studio
<input type="checkbox"/> Azure Machine Learning Python SDK
<input type="checkbox"/> Azure Machine Learning REST

Development tool
<input type="checkbox"/>
<input type="checkbox"/> Azure CLI
<input type="checkbox"/> Azure Machine Learning studio
<input type="checkbox"/> Azure Machine Learning Python SDK
<input type="checkbox"/> Azure Machine Learning REST

Answer:

Explanation:

ANSWER AREA

Requirement

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

Development tool

- 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



NEW QUESTION # 475

You have an Azure Machine learning workspace. The workspace contains a dataset with data in a tabular form. You plan to use the Azure Machine Learning SDK for Python v1 to create a control script that will load the dataset into a pandas dataframe in preparation for model training. The script will accept a parameter designating the dataset. You need to complete the script.

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

NOTE: Each correct selection is worth one point.

Answer Area

```
import argparse
from azureml.core import Dataset, Run
parser = argparse.ArgumentParser()
parser.add_argument("--input-data", type=str)
args = parser.parse_args()
run = Run.get_context()
ws = run.experiment.workspace

ds = Dataset.get_by_id(ws, id=args.input_data)
df = ds.to_pandas_dataframe()
```

The screenshot shows a Jupyter notebook interface with a code cell. The code is partially completed. There are two dropdown menus. The first dropdown is for the `ds` variable, with options: `get_by_id(ws, id=args.input_data)`, `to_pandas_dataframe()`, `from_pandas_dataframe()`, and `get_by_id(ws, id=args.input_data)`. The second dropdown is for the `df` variable, with options: `to_pandas_dataframe()`, `get_by_id(ws, id=args.input_data)`, `to_pandas_dataframe()`, and `from_pandas_dataframe()`.

Answer:

Explanation:

Answer Area

```
import argparse
from azureml.core import Dataset, Run
parser = argparse.ArgumentParser()
parser.add_argument("--input-data", type=str)
args = parser.parse_args()
run = Run.get_context()
ws = run.experiment.workspace

ds = Dataset.get_by_id(ws, id=args.input_data)
df = ds.to_pandas_dataframe()
```

The screenshot shows the same Jupyter notebook interface as above. In this version, the correct options are highlighted with red boxes. For the `ds` dropdown, the correct option is `get_by_id(ws, id=args.input_data)`. For the `df` dropdown, the correct option is `to_pandas_dataframe()`.

**NEW QUESTION # 476**

You create an Azure Machine Learning workspace.

You must create a custom role named DataScientist that meets the following requirements:

- \* Role members must not be able to delete the workspace.
- \* Role members must not be able to create, update, or delete compute resource in the workspace.
- \* Role members must not be able to add new users to the workspace.

You need to create a JSON file for the DataScientist role in the Azure Machine Learning workspace.

The custom role must enforce the restrictions specified by the IT Operations team.

Which JSON code segment should you use?

- A.

```
{
  "Name": "DataScientist",
  "IsCustom": true,
  "Description": "Project Data Scientist role",
  "Actions": ["*"],
  "NotActions": [],
  "AssignableScopes": [
    "/subscriptions/<id>/resourceGroups/ml-rg/providers/Microsoft.MachineLearningServices/workspaces/ml-ws"
  ]
}
```

```
{
  "Name": "DataScientist",
  "IsCustom": true,
  "Description": "Project Data Scientist role",
  "Actions": ["*"],
  "NotActions": [
    "Microsoft.MachineLearningServices/workspaces/*/delete",
    "Microsoft.MachineLearningServices/workspaces/computes/*/write",
    "Microsoft.MachineLearningServices/workspaces/computes/*/delete",
    "Microsoft.Authorization/*/write"
  ],
  "AssignableScopes": [
    "/subscriptions/<id>/resourceGroups/ml-rg/providers/Microsoft.MachineLearningServices/workspaces/ml-ws"
  ]
}
```

- B.

- C.

```
{
  "Name": "DataScientist",
  "IsCustom": true,
  "Description": "Project Data Scientist role",
  "Actions": [
    "Microsoft.MachineLearningServices/workspaces/*/delete",
    "Microsoft.MachineLearningServices/workspaces/computes/*/write",
    "Microsoft.MachineLearningServices/workspaces/computes/*/delete",
    "Microsoft.Authorization/*/write"
  ],
  "NotActions": [],
  "AssignableScopes": [
    "/subscriptions/<id>/resourceGroups/ml-rg/providers/Microsoft.MachineLearningServices/workspaces/ml-ws"
  ]
}
```

- D.

```
{
  "Name": "DataScientist",
  "IsCustom": true,
  "Description": "Project Data Scientist role",
  "Actions": [],
  "NotActions": ["*"],
  "AssignableScopes": [
    "/subscriptions/<id>/resourceGroups/ml-rg/providers/Microsoft.MachineLearningServices/workspaces/ml-ws"
  ]
}
```

**Answer: B**

**Explanation:**

The following custom role can do everything in the workspace except for the following actions:

- \* It can't create or update a compute resource.
- \* It can't delete a compute resource.
- \* It can't add, delete, or alter role assignments.
- \* It can't delete the workspace.

To create a custom role, first construct a role definition JSON file that specifies the permission and scope for the role. The following example defines a custom role named "Data Scientist Custom" scoped at a specific workspace level:

```

data_scientist_custom_role.json :
{
  "Name": "Data Scientist Custom",
  "IsCustom": true,
  "Description": "Can run experiment but can't create or delete compute.",
  "Actions": ["*"],
  "NotActions": [
    "Microsoft.MachineLearningServices/workspaces/*/delete",
    "Microsoft.MachineLearningServices/workspaces/write",
    "Microsoft.MachineLearningServices/workspaces/computes/*/write",
    "Microsoft.MachineLearningServices/workspaces/computes/*/delete",
    "Microsoft.Authorization/*/write"
  ],
  "AssignableScopes": [
    "/subscriptions/<subscription_id>/resourceGroups/<resource_group_name>/providers/Microsoft.MachineLearnin
  ]
}
Reference:
https://docs.microsoft.com/en-us/azure/machine-learning/how-to-assign-roles

```

## NEW QUESTION # 477

.....

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