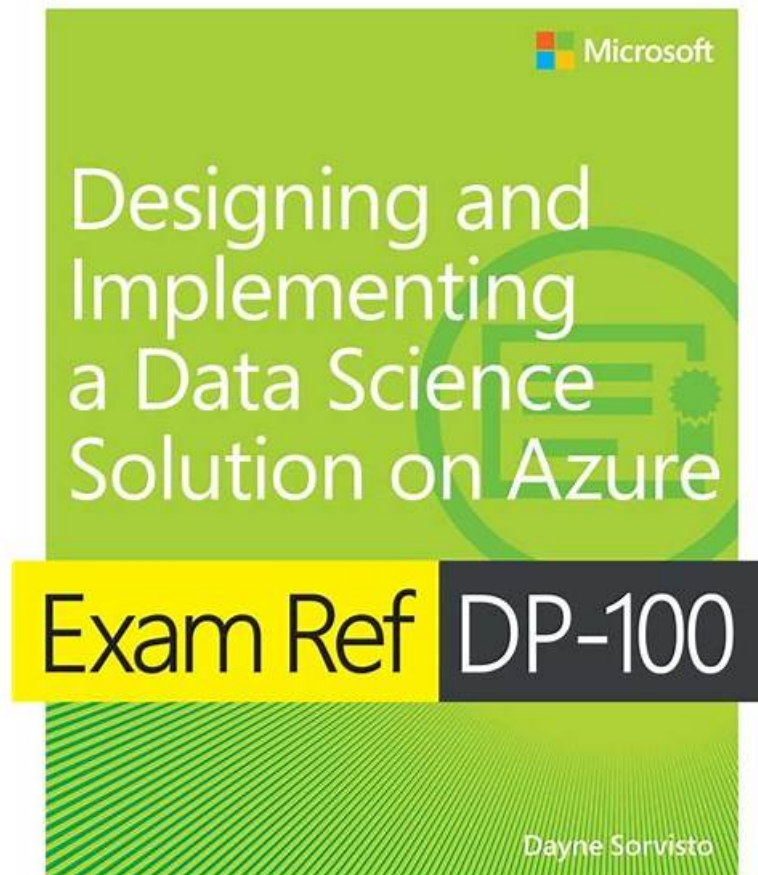


Quiz 2026 DP-100: Reliable Exam Designing and Implementing a Data Science Solution on Azure Testking



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Microsoft Designing and Implementing a Data Science Solution on Azure Sample Questions (Q76-Q81):

NEW QUESTION # 76

You create a multi-class image classification deep learning experiment by using the PyTorch framework. You plan to run the experiment on an Azure Compute cluster that has nodes with GPU's.

You need to define an Azure Machine Learning service pipeline to perform the monthly retraining of the image classification model. The pipeline must run with minimal cost and minimize the time required to train the model.

Which three pipeline steps should you run 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
Configure a DataTransferStep() to fetch new image data from public web portal, running on the cpu-compute compute target.	 Microsoft
Configure an EstimatorStep() to run an estimator that runs the bird_classifier_train.py model training script on the gpu_compute compute target.	
Configure a PythonScriptStep() to run both image_fetcher.py and image_resize.py on the cpu-compute compute target.	
Configure an EstimatorStep() to run an estimator that runs the bird_classifier_train.py model training script on the cpu_compute compute target.	
Configure a PythonScriptStep() to run image_fetcher.py on the cpu-compute compute target.	
Configure a PythonScriptStep() to run image_resize.py on the cpu-compute compute target.	
Configure a PythonScriptStep() to run bird_classifier_train.py on the cpu-compute compute target.	
Configure a PythonScriptStep() to run bird_classifier_train.py on the gpu-compute compute target.	

Answer:

Explanation:

Actions

- Configure a DataTransferStep() to fetch new image data from public web portal, running on the cpu-compute compute target.
- Configure an EstimatorStep() to run an estimator that runs the bird_classifier_train.py model training script on the gpu_compute compute target.
- Configure a PythonScriptStep() to run both image_fetcher.py and image_resize.py on the cpu-compute compute target.
- Configure an EstimatorStep() to run an estimator that runs the bird_classifier_train.py model training script on the cpu_compute compute target.
- Configure a PythonScriptStep() to run image_fetcher.py on the cpu-compute compute target.
- Configure a PythonScriptStep() to run image_resize.py on the cpu_compute compute target.
- Configure a PythonScriptStep() to run bird_classifier_train.py on the cpu-compute compute target.
- Configure a PythonScriptStep() to run bird_classifier_train.py on the gpu-compute compute target.

Answer Area

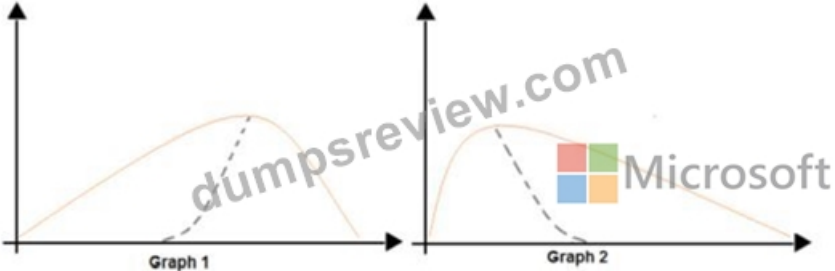
- Configure a DataTransferStep() to fetch new image data from public web portal, running on the cpu-compute compute target.
- Configure a PythonScriptStep() to run image_resize.py on the cpu-compute compute target.
- Configure an EstimatorStep() to run an estimator that runs the bird_classifier_train.py model training script on the gpu_compute compute target.



Reference:
<https://docs.microsoft.com/en-us/azure/machine-learning/how-to-train-pytorch>

NEW QUESTION # 77

You are analyzing the asymmetry in a statistical distribution.
The following image contains two density curves that show the probability distribution of two datasets.



Use the drop-down menus to select the answer choice that answers each question based on the information presented in the graphic.
NOTE: Each correct selection is worth one point.

Question

Answer choice

Which type of distribution is shown for the dataset density curve of Graph 1?

- Negative skew
- Positive skew
- Normal distribution
- Bimodal distribution

Which type of distribution is shown for the dataset density curve of Graph 2?

- Negative skew
- Positive skew
- Normal distribution
- Bimodal distribution



Answer:

Explanation:

Question	Answer choice
Which type of distribution is shown for the dataset density curve of Graph 1?	<input type="text"/> Negative skew Positive skew Normal distribution Bimodal distribution
Which type of distribution is shown for the dataset density curve of Graph 2?	<input type="text"/> Negative skew Positive skew Normal distribution Bimodal distribution

Explanation

Question	Answer choice
Which type of distribution is shown for the dataset density curve of Graph 1?	<input type="text"/> Negative skew Positive skew Normal distribution Bimodal distribution
Which type of distribution is shown for the dataset density curve of Graph 2?	<input type="text"/> Negative skew Positive skew Normal distribution Bimodal distribution

Box 1: Positive skew

Positive skew values means the distribution is skewed to the right.

Box 2: Negative skew

Negative skewness values mean the distribution is skewed to the left.

References:

<https://docs.microsoft.com/en-us/azure/machine-learning/studio-module-reference/compute-elementary-statistics>

NEW QUESTION # 78

You are evaluating a Python NumPy array that contains six data points defined as follows:

```
data = [10, 20, 30, 40, 50, 60]
```

You must generate the following output by using the k-fold algorithm implantation in the Python Scikit-learn machine learning library:

```
train: [10 40 50 60], test: [20 30]
```

```
train: [20 30 40 60], test: [10 50]
```

```
train: [10 20 30 50], test: [40 60]
```

You need to implement a cross-validation to generate the output.

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

NOTE: Each correct selection is worth one point.

```

from numpy import array
from sklearn.model_selection import

data = array([10, 20, 30, 40, 50, 60])
kfold = Kfold(n_splits=, shuffle = True, random_state=1)

for train, test in kFold, split( ):

print('train: %s, test: %5' % (data[train], data[test]))

```

Answer:

Explanation:

```

from numpy import array
from sklearn.model_selection import

data = array([10, 20, 30, 40, 50, 60])
kfold = Kfold(n_splits=, shuffle = True, random_state=1)

for train, test in kFold, split( ):

print('train: %s, test: %5' % (data[train], data[test]))

```

Explanation:

```

from numpy import array
from sklearn.model_selection import
data = array([10, 20, 30, 40, 50, 60])
kfold = Kfold(n_splits=, shuffle = True, random_state=1
for train, test in kFold, split( ):
print('train: %s, test: %s' % (data[train], data[test]))

```



Microsoft

dropdown menu: K-Means, k-fold, CrossValidation, ModelSelection

dropdown menu: 1, 2, 3, 6

dropdown menu: data, k-fold, array, train, test

Box 1: k-fold

Box 2: 3

K-Folds cross-validator provides train/test indices to split data in train/test sets. Split dataset into k consecutive folds (without shuffling by default).

The parameter n_splits (int, default=3) is the number of folds. Must be at least 2.

Box 3: data

Example: Example:

```

>>>
>>> from sklearn.model_selection import KFold
>>> X = np.array([[1, 2], [3, 4], [1, 2], [3, 4]])
>>> y = np.array([1, 2, 3, 4])
>>> kf = KFold(n_splits=2)
>>> kf.get_n_splits(X)
2
>>> print(kf)
KFold(n_splits=2, random_state=None, shuffle=False)
>>> for train_index, test_index in kf.split(X):
print("TRAIN:", train_index, "TEST:", test_index)
X_train, X_test = X[train_index], X[test_index]
y_train, y_test = y[train_index], y[test_index]
TRAIN: [2 3] TEST: [0 1]
TRAIN: [0 1] TEST: [2 3]

```

References:

https://scikit-learn.org/stable/modules/generated/sklearn.model_selection.KFold.html

NEW QUESTION # 79

You define a datastore named ml-data for an Azure Storage blob container. In the container, you have a folder named train that contains a file named data.csv. You plan to use the file to train a model by using the Azure Machine Learning SDK.

You plan to train the model by using the Azure Machine Learning SDK to run an experiment on local compute.

You define a DataReference object by running the following code:

```

from azureml.core import workspace, Datastore, Environment
from azureml.train.estimator import Estimator
ws = Workspace.from_config()
ml_data = Datastore.get(ws, datastore_name='ml-data')
data_ref = ml_data.path('train').as_download(path_on_compute='train_data')
estimator = Estimator(source_directory='experiment_folder',
    script_params={'--data-folder': data_ref},
    compute_target = 'local',
    entry_script='training.py')
run = experiment.submit(config=estimator)
run.wait_for_completion(show_output=True)

```

You need to load the training data.

Which code segment should you use?

```

A. import os
import argparse
import pandas as pd

parser = argparse.ArgumentParser()
parser.add_argument('--data-folder', type=str, dest='data_folder')
data_folder = args.data_folder
data = pd.read_csv(os.path.join(data_folder, 'ml-data', 'train_data', 'data.csv'))

B. import os
import argparse
import pandas as pd

parser = argparse.ArgumentParser()
parser.add_argument('--data-folder', type=str, dest='data_folder')
data_folder = args.data_folder
data = pd.read_csv(os.path.join(data_folder, 'train', 'data.csv'))

C. import pandas as pd
data = pd.read_csv('./data.csv')

```

```

D. import os
import argparse
import pandas as pd

parser = argparse.ArgumentParser()
parser.add_argument('--data-folder', type=str, dest='data_folder')
data_folder = args.data_folder
data = pd.read_csv(os.path.join('ml_data', data_folder, 'data.csv'))

E. import os
import argparse
import pandas as pd

parser = argparse.ArgumentParser()
parser.add_argument('--data-folder', type=str, dest='data_folder')
data_folder = args.data_folder
data = pd.read_csv(os.path.join(data_folder, 'data.csv'))

```

- A. Option C
- B. Option A
- C. Option E
- D. Option D
- E. Option B

Answer: C

Explanation:

Explanation

Example:

```
data_folder = args.data_folder
```

```
# Load Train and Test data
```

```
train_data = pd.read_csv(os.path.join(data_folder, 'data.csv'))
```

Reference:

<https://www.element61.be/en/resource/azure-machine-learning-services-complete-toolbox-ai>

NEW QUESTION # 80

You deploy a model in Azure Container Instance.

You must use the Azure Machine Learning SDK to call the model API.

You need to invoke the deployed model using native SDK classes and methods.

How should you complete the command? To answer, select the appropriate options in the answer areas.

NOTE: Each correct selection is worth one point.

```
from azureml.core import Workspace

from azureml.core.webservice import requests
from azureml.core.webservice import Webservice
from azureml.core.webservice import LocalWebservice

import json
ws = Workspace.from_config()
service_name = "mlmodel1-service"
service = Webservice(name=service_name, workspace=ws)
x_new = [[2,101.5,1,24,21], [1,89.7,4,41,21]]
input_json = json.dumps({"data": x_new})

predictions = service.run(input_json)
predictions = requests.post(service.scoring_uri, input_json)
predictions = service.deserialize(ws, input_json)
```

Answer:

Explanation:

```
from azureml.core import Workspace

from azureml.core.webservice import requests
from azureml.core.webservice import Webservice
from azureml.core.webservice import LocalWebservice

import json
ws = Workspace.from_config()
service_name = "mlmodel1-service"
service = Webservice(name=service_name, workspace=ws)
x_new = [[2,101.5,1,24,21], [1,89.7,4,41,21]]
input_json = json.dumps({"data": x_new})

predictions = service.run(input_json)
predictions = requests.post(service.scoring_uri, input_json)
predictions = service.deserialize(ws, input_json)
```

Explanation:

Box 1: from azureml.core.webservice import Webservice

The following code shows how to use the SDK to update the model, environment, and entry script for a web service to Azure

Container Instances:

```
from azureml.core import Environment
from azureml.core.webservice import Webservice
from azureml.core.model import Model, InferenceConfig
```

Box 2: predictions = service.run(input_json)

Example: The following code demonstrates sending data to the service:

```
import json
test_sample = json.dumps({'data': [
[1, 2, 3, 4, 5, 6, 7, 8, 9, 10],
[10, 9, 8, 7, 6, 5, 4, 3, 2, 1]
]})
test_sample = bytes(test_sample, encoding='utf8')
prediction = service.run(input_data=test_sample)
print(prediction)
```

Reference:

<https://docs.microsoft.com/bs-latn-ba/azure/machine-learning/how-to-deploy-azure-container-instance>

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

NEW QUESTION # 81

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