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Microsoft DP-100 Exam Syllabus Topics:

Section	Objectives
Optimize and manage models	- Improve model performance - Track experiments and manage model lifecycle
Train machine learning models	- Tune hyperparameters and evaluate models - Train models using Azure Machine Learning
Deploy and consume models	- Monitor deployed models and endpoints - Deploy models to endpoints
Explore and analyze data	- Perform exploratory data analysis - Ingest and prepare data for modeling
Design and prepare a machine learning solution	- Manage compute and data assets - Select appropriate Azure services for machine learning workloads - Plan and configure Azure Machine Learning workspace

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Microsoft Designing and Implementing a Data Science Solution on Azure Sample Questions (Q343-Q348):

NEW QUESTION # 343

You create an Azure Machine Learning workspace.

You need to detect data drift between a baseline dataset and a subsequent target dataset by using the DataDriftDetector class.

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.

```
from azureml.core import Workspace, Dataset
from datetime import datetime

ws = Workspace.from_config()
dset = Dataset.get_by_name(ws, 'target')
baseline = target.time_before(datetime(2021, 2, 1))
features = ['windAngle', 'windSpeed', 'temperature', 'stationName']

monitor = DataDriftDetector. (ws, 'drift-monitor', baseline,
                             backfill
                             create_from_datasets
                             create_from_model
                             target, compute_target='cpu-cluster', frequency='Week', feature_list=None,
                             drift_threshold=.6, latency=24)

monitor = DataDriftDetector.get_by_name(ws, 'drift-monitor')
monitor = monitor.update(feature_list=features)
complete = monitor. (datetime(2021, 1, 1), datetime.today())
                        backfill
                        list
                        update
```

Answer:

Explanation:

```
from azureml.core import Workspace, Dataset
from datetime import datetime

ws = Workspace.from_config()
dset = Dataset.get_by_name(ws, 'target')
baseline = target.time_before(datetime(2021, 2, 1))
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                        backfill
                        list
                        update
```

Explanation:

```

from azureml.core import Workspace, Dataset
from datetime import datetime

ws = Workspace.from_config()
dset = Dataset.get_by_name(ws, 'target')
baseline = target.time_before(datetime(2021, 2, 1))
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monitor = DataDriftDetector. (ws, 'drift-monitor', baseline,
                               backfill
                               create_from_datasets
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target, compute_target='cpu-cluster', frequency='Week', feature_list=None,
drift_threshold=.6, latency=24)

monitor = DataDriftDetector.get_by_name(ws, 'drift-monitor')
monitor = monitor.update(feature_list=features)
complete = monitor. (datetime(2021, 1, 1), datetime.today())
                               backfill
                               list
                               update

```



Box 1: create_from_datasets

The create_from_datasets method creates a new DataDriftDetector object from a baseline tabular dataset and a target time series dataset.

Box 2: backfill

The backfill method runs a backfill job over a given specified start and end date.

Syntax: backfill(start_date, end_date, compute_target=None, create_compute_target=False) Reference:

[https://docs.microsoft.com/en-us/python/api/azureml-datadrift/azureml.datadrift.datadriftdetector\(class\)](https://docs.microsoft.com/en-us/python/api/azureml-datadrift/azureml.datadrift.datadriftdetector(class))

NEW QUESTION # 344

You are preparing to build a deep learning convolutional neural network model for image classification. You create a script to train the model using CUDA devices.

You must submit an experiment that runs this script in the Azure Machine Learning workspace.

The following compute resources are available:

a Microsoft Surface device on which Microsoft Office has been installed. Corporate IT policies prevent the installation of additional software a Compute Instance named in the workspace with 2 CPUs and 8 GB of memory an Azure Machine Learning compute target named with eight CPU-based nodes an Azure Machine Learning compute target named with four CPU and GPU-based nodes You need to specify the compute resources to be used for running the code to submit the experiment, and for running the script in order to minimize model training time.

Which resources should the data scientist use? To answer, select the appropriate options in the answer area.

NOTE: Each correct selection is worth one point.

Resource type



Option

Run code to submit the experiment

the Microsoft Surface device
the ds-workstation notebook VM
the cpu-cluster compute target
the gpu-cluster compute target

Run the training script

the ds-workstation notebook VM
the cpu-compute target
the gpu-compute target
the Microsoft Surface device

Answer:

Explanation:

Resource type

Option

Run code to submit the experiment

the Microsoft Surface device
the ds-workstation notebook VM
the cpu-cluster compute target
the gpu-cluster compute target

Run the training script

the ds-workstation notebook VM
the cpu-compute target
the gpu-compute target
the Microsoft Surface device

Explanation

Resource type

Option

Run code to submit the experiment

- the Microsoft Surface device
- the ds-workstation notebook VM
- the cpu-cluster compute target
- the gpu-cluster compute target

Run the training script

- the ds-workstation notebook VM
- the cpu-compute target
- the gpu-compute target
- the Microsoft Surface device



Microsoft

NEW QUESTION # 345

You create an Azure Machine Learning compute target named by using the STANDARD_D1 virtual machine image.

You define a Python variable named `ws` that references the Azure Machine Learning workspace. You run the following Python code:

```
from azureml.core.compute import ComputeTarget, AmlCompute
from azureml.core.compute_target import ComputeTargetException
the_cluster_name = "ComputeOne"
try:
    the_cluster = ComputeTarget(workspace=ws, name=the_cluster_name)
    print('Step1')
except ComputeTargetException:
    config = AmlCompute.provisioning_configuration(vm_size='STANDARD_DS12_v2', max_nodes=4)
    the_cluster = ComputeTarget.create(ws, the_cluster_name, config)
    print('Step2')
```

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

NOTE: Each correct selection is worth one point.

A new machine learning compute resource is created with a virtual machine size of STANDARD_DS12_v2 and a maximum of four nodes.

Yes

☐

No

☐

Any experiments configured to use `the_cluster` will run on ComputeOne.

☐
☐

The text **Step1** will be printed to the screen.

☐
☐

Answer:

Explanation:

A new machine learning compute resource is created with a virtual machine size of STANDARD_DS12_v2 and a maximum of four nodes.

Yes

☒

No

☐

Any experiments configured to use `the_cluster` will run on ComputeOne.

☒
☐

The text **Step1** will be printed to the screen.

☐
☒

Explanation



A new machine learning compute resource is created with a virtual machine size of STANDARD_DS12_v2 and a maximum of four nodes.

Yes

☐

No

☐

Any experiments configured to use the `cluster` will run on ComputeOne.

☐
☐

The text **Step1** will be printed to the screen.

☐
☐

Box 1: Yes

ComputeTargetException class: An exception related to failures when creating, interacting with, or configuring a compute target. This exception is commonly raised for failures attaching a compute target, missing headers, and unsupported configuration values.

Create(workspace, name, provisioning_configuration)

Provision a Compute object by specifying a compute type and related configuration.

This method creates a new compute target rather than attaching an existing one.

Box 2: Yes

Box 3: No

The line before print('Step1') will fail.

Reference:

<https://docs.microsoft.com/en-us/python/api/azureml-core/azureml.core.compute.computetarget>

NEW QUESTION # 346

You need to define an evaluation strategy for the crowd sentiment models.

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

Add new features for retraining supervised models.

Filter labeled cases for retraining using the shortest distance from centroids.

Evaluate the changes in correlation between model error rate and centroid distance

Impute unavailable features with centroid aligned models

Filter labeled cases for retraining using the longest distance from centroids.

Remove features before retraining supervised models.



Answer:

Explanation:

Actions

Add new features for retraining supervised models.

Filter labeled cases for retraining using the shortest distance from centroids.

Evaluate the changes in correlation between model error rate and centroid distance

Impute unavailable features with centroid aligned models

Filter labeled cases for retraining using the longest distance from centroids.

Remove features before retraining supervised models

Answer Area

Add new features for retraining supervised models.

Evaluate the changes in correlation between model error rate and centroid distance

Filter labeled cases for retraining using the shortest distance from centroids.

Explanation

Answer Area



Add new features for retraining supervised models.

Evaluate the changes in correlation between model error rate and centroid distance

Filter labeled cases for retraining using the shortest distance from centroids.

Scenario:

Experiments for local crowd sentiment models must combine local penalty detection data.

Crowd sentiment models must identify known sounds such as cheers and known catch phrases. Individual crowd sentiment models will detect similar sounds.

Note: Evaluate the changed in correlation between model error rate and centroid distance In machine learning, a nearest centroid classifier or nearest prototype classifier is a classification model that assigns to observations the label of the class of training samples whose mean (centroid) is closest to the observation.

References:

https://en.wikipedia.org/wiki/Nearest_centroid_classifier

<https://docs.microsoft.com/en-us/azure/machine-learning/studio-module-reference/sweep-clustering>

NEW QUESTION # 347

You create an Azure Machine Learning dataset containing automobile price data The dataset includes 10,000 rows and 10 columns You use Azure Machine Learning Designer to transform the dataset by using an Execute Python Script component and custom code.

The code must combine three columns to create a new column.

You need to configure the code function.

Which configurations should you use? To answer, select the appropriate options in the answer area NOTE: Each correct selection is worth one point.

Answer Area



Function setting	Value
Entry point function name	azureml_main main execute_python_script
Function return type	dataframe scalar vector

Answer:

Explanation:

Answer Area

Function setting	Value
Entry point function name	azureml_main main execute_python_script
Function return type	dataframe scalar vector

Explanation:

Answer Area



Function setting

Value

Entry point function name

azureml_main

Function return type

dataframe

NEW QUESTION # 348

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