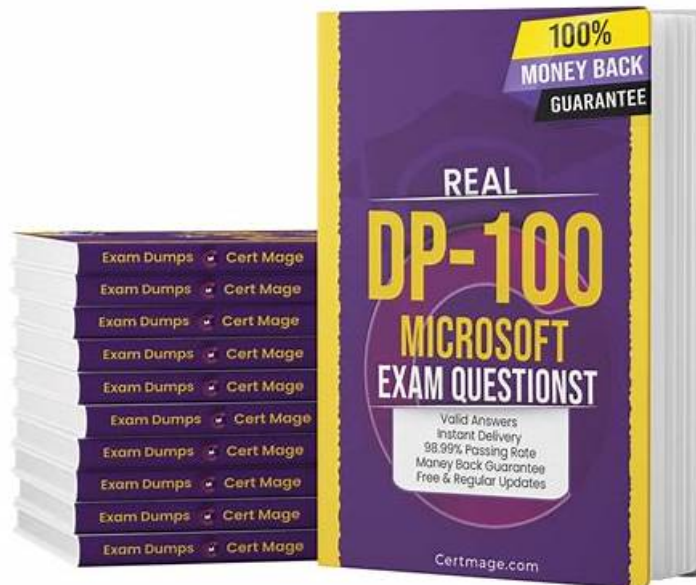


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The DP-100 Exam is a hands-on practical exam that requires the candidate to demonstrate their ability to design and implement data science solutions on Azure. DP-100 exam includes various tasks, such as creating machine learning models, building data pipelines, and deploying models to production environments. The tasks are designed to simulate real-world scenarios that data scientists and engineers face in their jobs.

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Microsoft DP-100 Exam Reference

The Microsoft DP-100 exam is designed to test the candidate's knowledge of a wide range of topics, including data ingestion and processing, machine learning models, real-time and batch data processing, monitoring and optimization solutions, as well as data storage and management solutions. Designing and Implementing a Data Science Solution on Azure certification is a rigorous test of a candidate's skills and knowledge, and passing the exam requires a deep understanding of these topics.

Microsoft Designing and Implementing a Data Science Solution on Azure

Sample Questions (Q13-Q18):

NEW QUESTION # 13

You run an experiment that uses an AutoMLConfig class to define an automated machine learning task with a maximum of ten model training iterations. The task will attempt to find the best performing model based on a metric named accuracy.

You submit the experiment with the following code:

You need to create Python code that returns the best model that is generated by the automated machine learning task. Which code segment should you use?

A)

```
best_model = automl_run.get_details()
```

B)

```
best_model = automl_run.get_output()[1]
```

C)

```
best_model = automl_run.get_file_names()[1]
```

D)

```
best_model = automl_run.get_metrics()
```

- A. Option C
- **B. Option B**
- C. Option D
- D. Option A

Answer: B

Explanation:

The get_output method returns the best run and the fitted model.

Reference:

<https://notebooks.azure.com/azureml/projects/azureml-getting-started/html/how-to-use-azureml/automated-machine-learning/classification/auto-ml-classification.ipynb>

NEW QUESTION # 14

Your Azure Machine Learning workspace has a dataset named . A sample of the data in the dataset follows.

postal_code	num_bedrooms	sq_feet	garage	price
12345	3	1300	0	23,9000
54321	1	950	0	11,0000
12346	2	1200	1	15,0000

You want to use automated machine learning to find the best regression model for predicting the price column.

You need to configure an automated machine learning experiment using the Azure Machine Learning SDK.

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

NOTE: Each correct selection is worth one point.

Answer Area

```
from azureml.core import Workspace
from azureml.core.compute import ComputeTarget
from azureml.core.runconfig import RunConfiguration
from azureml.train.automl import AutoMLConfig

ws = Workspace.from_config()
training_cluster = ComputeTarget(workspace=ws, name= 'aml-cluster1')
real_estate_ds = ws.datasets.get('real_estate_data')
split1_ds, split2_ds = real_estate_ds.random_split(percentage=0.7, seed=123)
automl_run_config = RunConfiguration(framework= "python")
automl_config = AutoMLConfig(
```

```
    task= 'regression',
    compute_target= training_cluster,
    run_configuration=automl_run_config,
    primary_metric='r2_score',
```

```
    =split1_ds,
```

X
Y
X_valid
Y_valid
training_data

Microsoft

```
    =split2_ds
```

X
Y
X_valid
Y_valid
validation_data
training_data

```
    ='price')
```

y
y_valid
y_max
label_column_name
exclude_nan_labels

Answer:

Explanation:

Answer Area

```
from azureml.core import Workspace
from azureml.core.compute import ComputeTarget
from azureml.core.runconfig import RunConfiguration
from azureml.train.automl import AutoMLConfig

ws = Workspace.from_config()
training_cluster = ComputeTarget(workspace=ws, name='aml-cluster1')
real_estate_ds = ws.datasets.get('real_estate_data')
split1_ds, split2_ds = real_estate_ds.random_split(percentage=0.7, seed=123)
automl_run_config = RunConfiguration(framework="python")
automl_config = AutoMLConfig(
    task='regression',
    compute_target=training_cluster,
    run_configuration=automl_run_config,
    primary_metric='r2_score',
    training_data=split1_ds,
    validation_data=split2_ds,
    label_column_name='price')

```

▼

=split1_ds,

X

Y

X_valid

Y_valid

training_data

▼

=split2_ds

X

Y

X_valid

Y_valid

validation_data

training_data

▼

='price')

y

y_valid

y_max

label_column_name

exclude_nan_labels

Explanation

▼

=split1_ds,

X

Y

X_valid

Y_valid

training_data

▼

=split2_ds

X

Y

X_valid

Y_valid

validation_data

training_data

▼

='price')

y

y_valid

y_max

label_column_name

exclude nan labels

Box 1: training_data

The training data to be used within the experiment. It should contain both training features and a label column (optionally a sample weights column). If training_data is specified, then the label_column_name parameter must also be specified.

Box 2: validation_data

Provide validation data: In this case, you can either start with a single data file and split it into training and validation sets or you can provide a separate data file for the validation set. Either way, the validation_data parameter in your AutoMLConfig object assigns which data to use as your validation set.

Example, the following code example explicitly defines which portion of the provided data in dataset to use for training and validation.

```
dataset = Dataset.Tabular.from_delimited_files(data)
```

```
training_data, validation_data = dataset.random_split(percentage=0.8, seed=1)
automl_config = AutoMLConfig(compute_target=aml_remote_compute, task='classification', primary_metric='AUC_weighted', training_data=training_data, validation_data=validation_data)
```

validation_data, label_column_name = 'Class') Box 3: label_column_name label_column_name:

The name of the label column. If the input data is from a pandas.DataFrame which doesn't have column names, column indices can be used instead, expressed as integers.

This parameter is applicable to training_data and validation_data parameters.

Reference:

<https://docs.microsoft.com/en-us/python/api/azureml-train-automl-client/azureml.train.automl.automlconfig.auto>

NEW QUESTION # 15

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.

An IT department creates the following Azure resource groups and resources:

Resource group	Resources
ml_resources	• an Azure Machine Learning workspace named amlworkspace12345 • an Azure Storage account named amlworkspace54321 • an Application Insights instance named amlworkspace67890 • an Azure Key Vault named amlworkspace09876 • an Azure Container Registry named amlworkspace12345
general_compute	A virtual machine named mlvm with the following configuration: • Operating system: Ubuntu Linux • Software installed: Python 3.6 and Jupyter Notebooks • Size: NC6 (6 vCPUs, 1 vGPU, 56 Gb RAM)

The IT department creates an Azure Kubernetes Service (AKS)-based inference compute target named aks-cluster in the Azure Machine Learning workspace.

You have a Microsoft Surface Book computer with a GPU. Python 3.6 and Visual Studio Code are installed.

You need to run a script that trains a deep neural network (DNN) model and logs the loss and accuracy metrics.

Solution: Install the Azure ML SDK on the Surface Book. Run Python code to connect to the workspace and then run the training script as an experiment on local compute.

- A. Yes
- B. No

Answer: B

Explanation:

Need to attach the mlvm virtual machine as a compute target in the Azure Machine Learning workspace.

Reference:

<https://docs.microsoft.com/en-us/azure/machine-learning/concept-compute-target>

NEW QUESTION # 16

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 ds-workstation in the workspace with 2 CPUs and 8 GB of memory an Azure Machine Learning compute target named cpu-cluster with eight CPU-based nodes an Azure Machine Learning compute target named gpu-cluster 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

NEW QUESTION # 17

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.

Statements	Yes	No
Aborted runs are returned.	☐	☐
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:

Statements	Yes	No
Aborted runs are returned.	☐	☒
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.	☐	☒

Explanation

Statements	Yes	No
Aborted runs are returned.	☐	☒
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.	☐	☒

NEW QUESTION # 18

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