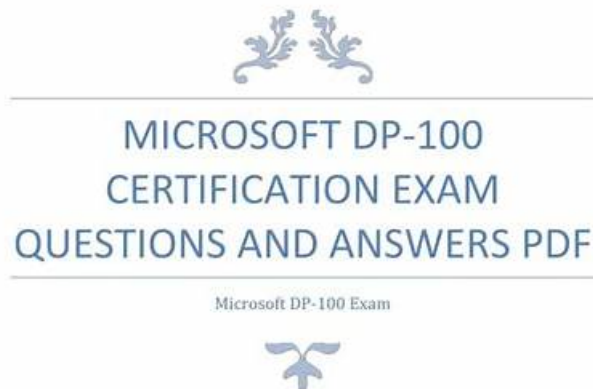


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Microsoft Designing and Implementing a Data Science Solution on Azure Sample Questions (Q365-Q370):

NEW QUESTION # 365

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 have the following Azure subscriptions and Azure Machine Learning service workspaces:

Subscription	Workspace	Comment
385bdf5-4cef-4ad4-b977-3f86d92727c9	ml-default	This is default subscription.
5a5891d1-557a-4234-9b83-2e90412b1068	ml-project	The information required to uniquely identify this workspace is stored in the file config.json in the same folder as the Python script.

You need to obtain a reference to the ml-project workspace.

Solution: Run the following Python code:

```
from azure.ai.ml import MLClient
ws = MLClient(workspace_name= "ml-project")
```

Does the solution meet the goal?

- A. No
- B. Yes

Answer: A

NEW QUESTION # 366

You plan to use the Hyperdrive feature of Azure Machine Learning to determine the optimal hyperparameter values when training a model.

You must use Hyperdrive to try combinations of the following hyperparameter values:

* learning_rate: any value between 0.001 and 0.1

* batch_size: 16, 32, or 64

You need to configure the search space for the Hyperdrive experiment.

Which two parameter expressions should you use? Each correct answer presents part of the solution.

NOTE: Each correct selection is worth one point.

- A. a normal expression for batch_size
- B. a choice expression for batch_size
- C. a choice expression for learning_rate
- D. a uniform expression for learning_rate
- E. a uniform expression for batch_size

Answer: B,D

Explanation:

B: Continuous hyperparameters are specified as a distribution over a continuous range of values. Supported distributions include:

* uniform(low, high) - Returns a value uniformly distributed between low and high D: Discrete hyperparameters are specified as a choice among discrete values. choice can be:

* one or more comma-separated values

* a range object

* any arbitrary list object

Reference:

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

NEW QUESTION # 367

You train classification and regression models by using automated machine learning.

You must evaluate automated machine learning experiment results. The results include how a classification model is making systematic errors in its predictions and the relationship between the target feature and the regression model's predictions. You must use charts generated by automated machine learning.

You need to choose a chart type for each model type.

Which chart types should you use? To answer, select the appropriate options in the answer area.

NOTE: Each correct selection is worth one point.

Answer Area

Microsoft

Model type

Classification

Regression

Chart type

Predicted vs. true

Calibration curve

Answer:

Explanation:

Answer Area

Microsoft

Model type

Classification

Regression

Chart type

Predicted vs. true

Calibration curve

NEW QUESTION # 368

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	<ul style="list-style-type: none">an Azure Machine Learning workspace named amlworkspace12345an Azure Storage account named amlworkspace54321an Application Insights instance named amlworkspace67890an Azure Key Vault named amlworkspace09876an Azure Container Registry named amlworkspace09876
general_compute	<p>A virtual machine named mlvm with the following configuration:</p> <ul style="list-style-type: none">Operating system: Ubuntu LinuxSoftware installed: Python 3.6 and Jupyter NotebooksSize: 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: Attach the mlvm virtual machine as a compute target in the Azure Machine Learning workspace.

Install the Azure ML SDK on the Surface Book and run Python code to connect to the workspace. Run the training script as an experiment on the mlvm remote compute resource.

- A. No
- B. Yes

Answer: B

Explanation:

Explanation

Use the VM as a compute target.

Note: A compute target is a designated compute resource/environment where you run your training script or host your service deployment. This location may be your local machine or a cloud-based compute resource.

Reference:

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

NEW QUESTION # 369

You are a lead data scientist for a project that tracks the health and migration of birds. You create a multi-image classification deep learning model that uses a set of labeled bird photos collected by experts. You plan to use the model to develop a cross-platform mobile app that predicts the species of bird captured by app users.

You must test and deploy the trained model as a web service. The deployed model must meet the following requirements:

An authenticated connection must not be required for testing.


The deployed model must perform with low latency during inferencing.

The REST endpoints must be scalable and should have a capacity to handle large number of requests when multiple end users are using the mobile application.

You need to verify that the web service returns predictions in the expected JSON format when a valid REST request is submitted.


Which compute resources should you use? To answer, select the appropriate options in the answer area.

NOTE: Each correct selection is worth one point.

Context	Resource
Test	<div> Microsoft</div> <div><div></div><div>ds-workstation notebook VM</div><div>aks-compute cluster</div><div>cpu-compute cluster</div><div>gpu-compute cluster</div></div>
Production	<div></div> <div><div></div><div>ds-workstation notebook VM</div><div>aks-compute cluster</div><div>cpu-compute cluster</div><div>gpu-compute cluster</div></div>

Answer:

Explanation:

Context	Resource
Test	<div> Microsoft</div> <div><div></div><div>ds-workstation notebook VM</div><div>aks-compute cluster</div><div>cpu-compute cluster</div><div>gpu-compute cluster</div></div>
Production	<div></div> <div><div></div><div>ds-workstation notebook VM</div><div>aks-compute cluster</div><div>cpu-compute cluster</div><div>gpu-compute cluster</div></div>

Reference:

<https://docs.microsoft.com/en-us/azure/machine-learning/data-science-virtual-machine/dsvm-common-identity>

<https://docs.microsoft.com/en-us/azure/architecture/reference-architectures/ai/training-deep-learning>

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