



DP-100^{Q&As}

Designing and Implementing a Data Science Solution on Azure

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QUESTION 1

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 are analyzing a numerical dataset which contains missing values in several columns.

You must clean the missing values using an appropriate operation without affecting the dimensionality of the feature set.

You need to analyze a full dataset to include all values.

Solution: Calculate the column median value and use the median value as the replacement for any missing value in the column.

Does the solution meet the goal?

A. Yes

B. No

Correct Answer: B

Use the Multiple Imputation by Chained Equations (MICE) method.

References:

<https://www.ncbi.nlm.nih.gov/pmc/articles/PMC3074241/>

<https://docs.microsoft.com/en-us/azure/machine-learning/studio-module-reference/clean-missing-data>

QUESTION 2

You are developing a machine learning model by using Azure Machine Learning. You are using multiple text files in tabular format for model data. You have the following requirements:

1.

You must use AutoML jobs to train the model.

2.

You must use data from specified columns.

3.

The data concept must support lazy evaluation. You need to load data into a Pandas dataframe. Which data concept



should you use?

- A. Data asset
- B. URI
- C. Datastore
- D. MLTable

Correct Answer: C

QUESTION 3

You create a binary classification model.

You need to evaluate the model performance.

Which two metrics can you use? Each correct answer presents a complete solution.

NOTE: Each correct selection is worth one point.

- A. relative absolute error
- B. precision
- C. accuracy
- D. mean absolute error
- E. coefficient of determination

Correct Answer: BC

The evaluation metrics available for binary classification models are: Accuracy, Precision, Recall, F1 Score, and AUC.

Note: A very natural question is: 'Out of the individuals whom the model, how many were classified correctly (TP)?'

This question can be answered by looking at the Precision of the model, which is the proportion of positives that are classified correctly.

Reference:

<https://docs.microsoft.com/en-us/azure/machine-learning/studio/evaluate-model-performance>

QUESTION 4

You create a Python script that runs a training experiment in Azure Machine Learning. The script uses the Azure Machine Learning SDK for Python. You must add a statement that retrieves the names of the logs and outputs generated by the script.

You need to reference a Python class object from the SDK for the statement. Which class object should you use?



- A. Run
- B. ScriptRunConfig
- C. Workspace
- D. Experiment

Correct Answer: A

A run represents a single trial of an experiment. Runs are used to monitor the asynchronous execution of a trial, log metrics and store output of the trial, and to analyze results and access artifacts generated by the trial.

The run Class `get_all_logs` method downloads all logs for the run to a directory.

Incorrect Answers:

A: A run represents a single trial of an experiment. Runs are used to monitor the asynchronous execution of a trial, log metrics and store output of the trial, and to analyze results and access artifacts generated by the trial.

B: A ScriptRunConfig packages together the configuration information needed to submit a run in Azure ML, including the script, compute target, environment, and any distributed job-specific configs.

Reference: [https://docs.microsoft.com/en-us/python/api/azureml-core/azureml.core.run\(class\)](https://docs.microsoft.com/en-us/python/api/azureml-core/azureml.core.run(class))

QUESTION 5

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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 amlworkspacean Azure Storage account named amlworkspace12345an Application Insights instance named amlworkspace54321an Azure Key Vault named amlworkspace67890an 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: 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.

Does the solution meet the goal?

A. Yes

B. No

Correct Answer: B

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>

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