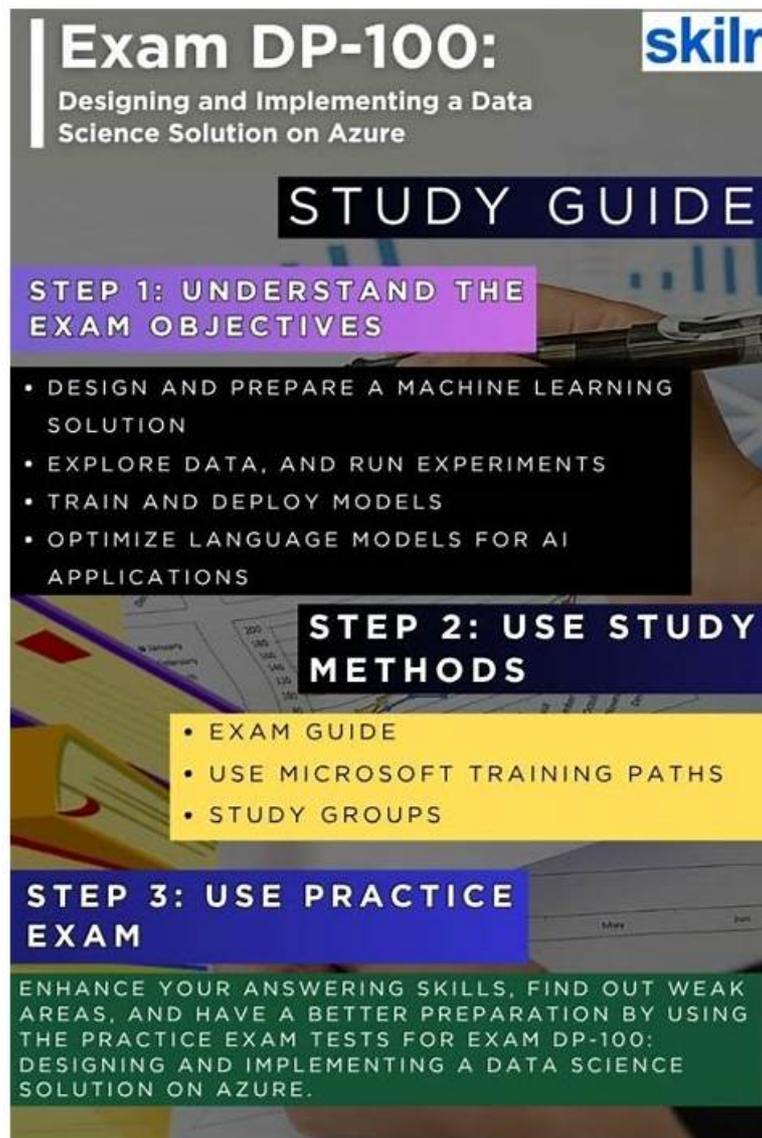


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Microsoft Designing and Implementing a Data Science Solution on Azure Sample Questions (Q273-Q278):

NEW QUESTION # 273

You train and register a model in your Azure Machine Learning workspace.

You must publish a pipeline that enables client applications to use the model for batch inferencing. You must use a pipeline with a single ParallelRunStep step that runs a Python inferencing script to get predictions from the input data.

You need to create the inferencing script for the ParallelRunStep pipeline step.

Which two functions should you include? Each correct answer presents part of the solution.

NOTE: Each correct selection is worth one point.

- A. `score(mini_batch)`
- B. `main()`
- C. `batch()`
- D. `run(mini_batch)`
- E. `init()`

Answer: D,E

Explanation:

Reference:

<https://github.com/Azure/MachineLearningNotebooks/tree/master/how-to-use-azureml/machine-learningpipelines/parallel-run>

NEW QUESTION # 274

You are analyzing a dataset containing historical data from a local taxi company. You are developing a regression model.

You must predict the fare of a taxi trip.

You need to select performance metrics to correctly evaluate the regression model.

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

NOTE: Each correct selection is worth one point.

- A. a Root Mean Square Error value that is low
- B. an F1 score that is low
- C. an R-Squared value close to 1
- D. an R-Squared value close to 0
- E. an F1 score that is high
- F. a Root Mean Square Error value that is high

Answer: A,C

Explanation:

RMSE and R2 are both metrics for regression models.

A: Root mean squared error (RMSE) creates a single value that summarizes the error in the model. By squaring the difference, the metric disregards the difference between over-prediction and under-prediction.

D: Coefficient of determination, often referred to as R2, represents the predictive power of the model as a value between 0 and 1. Zero means the model is random (explains nothing); 1 means there is a perfect fit. However, caution should be used in interpreting R2 values, as low values can be entirely normal and high values can be suspect.

Incorrect Answers:

C, E: F-score is used for classification models, not for regression models.

Reference:

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

NEW QUESTION # 275

You plan to use a Data Science Virtual Machine (DSVM) with the open source deep learning frameworks Caffe2 and Theano. You need to select a pre configured DSVM to support the framework. What should you create?

- A. Geo AI Data Science Virtual Machine with ArcGIS
- **B. Data Science Virtual Machine for Linux (Ubuntu)**
- C. Data Science Virtual Machine for Linux (CentOS)
- D. Data Science Virtual Machine for Windows 2012
- E. Data Science Virtual Machine for Windows 2016

Answer: B

Explanation:

Caffe2 and PyTorch is supported by Data Science Virtual Machine for Linux.

Microsoft offers Linux editions of the DSVM on Ubuntu 16.04 LTS and CentOS 7.4.

Only the DSVM on Ubuntu is preconfigured for Caffe2 and PyTorch.

References:

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

NEW QUESTION # 276

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 an Azure Machine Learning workspace named Workspace1. Workspace1 has a registered MLflow model named model1 with PyFunc flavor.

You plan to deploy model1 to an online endpoint named endpoint1 without egress connectivity by using Azure Machine Learning Python SDK v2.

You have the following code:

You need to add a parameter to the ManagedOnlineDeployment object to ensure the model deploys successfully.

Solution: Add the scoring_script parameter.

Does the solution meet the goal?

- **A. Yes**
- B. No

Answer: A

NEW QUESTION # 277

You are performing feature engineering on a dataset.

You must add a feature named CityName and populate the column value with the text London.

You need to add the new feature to the dataset.

Which Azure Machine Learning Studio module should you use?

- A. Execute Python Script
- B. Latent Dirichlet Allocation
- **C. Edit Metadata**
- D. Preprocess Text

Answer: C

Explanation:

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