



70-774^{Q&As}

Perform Cloud Data Science with Azure Machine Learning

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QUESTION 1

Note: This question is part of a series of questions that use the same scenario. For your convenience, the scenario is repeated in each question. Each question presents a different goal and answer choices, but the text of the scenario is exactly the same in each question in this series.

You plan to create a predictive analytics solution for credit risk assessment and fraud prediction in Azure Machine Learning. The Machine Learning workspace for the solution will be shared with other users in your organization. You will add

assets to projects and conduct experiments in the workspace.

The experiments will be used for training models that will be published to provide scoring from web services.

The experiment for fraud prediction will use Machine Learning modules and APIs to train the models and will predict probabilities in an Apache Hadoop ecosystem.

You plan to configure the resources for part of a workflow that will be used to preprocess data from files stored in Azure Blob storage. You plan to use Python to preprocess and store the data in Hadoop.

You need to get the data into Hadoop as quickly as possible.

Which three actions should you perform? Each correct answer presents part of the solution.

NOTE: Each correct selection is worth one point.

- A. Create an Azure virtual machine (VM), and then configure MapReduce on the VM.
- B. Create an Azure HDInsight Hadoop cluster.
- C. Create an Azure virtual machine (VM), and then install an IPython Notebook server.
- D. Process the files by using Python to store the data to a Hadoop instance.
- E. Create the Machine learning experiment, and then add an Execute Python Script module.

Correct Answer: BDE

QUESTION 2

Note: This question is part of a series of questions that use the same scenario. For your convenience, the scenario is repeated in each question. Each question presents a different goal and answer choices, but the text of the scenario is exactly the same in each question in this series.

Start of repeated scenario You plan to use Azure platform tools to detect and analyze food items in smart refrigerators. To provide families with an integrated experience for grocery shopping and cooking, the refrigerators will connect to other smart appliances, such as stoves and microwave ovens, on a LAN.

You plan to build an object recognition model by using the Microsoft Cognitive Toolkit. The object recognition model will receive input from the connected devices and send results to applications.

The training data will be derived from more than 10 TB of images. You will convert the raw images to the sparse format.



End of repeated scenario.

You need to deploy a multiple-service solution that was developed already and published by other users in the Microsoft development community.

What should you use?

- A. the edX Data Science Learning Dashboard
- B. the Data Science Virtual Machine
- C. an Azure Machine Learning experiment
- D. Cortana Intelligence Gallery

Correct Answer: C

QUESTION 3

You have an Azure Machine Learning experiment.

You discover that a model causes many errors in a production dataset. The model causes only few errors in the training data.

What is the cause of the errors?

- A. overfitting
- B. generalization
- C. underfitting
- D. a simple predictor

Correct Answer: A

QUESTION 4

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 sections, you will NOT be able to return to it. As a result, these questions will not appear in the review screen.

You are working on an Azure Machine Learning experiment.

You have the dataset configured as shown in the following table.



Model	Mean absolute error (MAE)
Boosted decision tree	.2
Relative absolute error (RAE)	.43

You need to ensure that you can compare the performance of the models and add annotations to the results.

Solution: You connect the Score Model modules from each trained model as inputs for the Evaluate Model module, and then save the results as a dataset.

Does this meet the goal?

A. Yes

B. No

Correct Answer: A

References: <https://msdn.microsoft.com/en-us/library/azure/dn905915.aspx>

QUESTION 5

Note: This question is part of a series of questions that use the same scenario. For your convenience, the scenario is repeated in each question. Each question presents a different goal and answer choices, but the text of the scenario is exactly the same in each question in this series.

A travel agency named Margie's Travel sells airline tickets to customers in the United States.

Margie's Travel wants you to provide insights and predictions on flight delays. The agency is considering implementing a system that will communicate to its customers as the flight departure nears about possible delays due to weather conditions. The flight data contains the following attributes:

The weather data contains the following attributes: AirportID, ReadingDate (YYYY/MM/DD HH), SkyConditionVisibility, WeatherType, WindSpeed, StationPressure, PressureChange, and HourlyPrecip.

You need to remove the bias and to identify the columns in the input dataset that have the greatest predictive power.

Which module should you use for each requirement? To answer, drag the appropriate modules to the correct requirements. Each module may be used once, more than once, or not at all. You may need to drag the split bar between panes or

scroll to view content.

NOTE: Each correct selection is worth one point.

Select and Place:



Modules

Cross-validate Model
Evaluate Model
Filter and Sample
Filter Based Feature Selection Module
Parameter Sweep
Tune Model Hyperparameters

Answer Area

Remove bias.
Identify the columns that have the greatest predictive power:

Module
Module

Correct Answer:

Modules

Evaluate Model
Filter and Sample
Filter Based Feature Selection Module
Parameter Sweep

Answer Area

Remove bias.
Identify the columns that have the greatest predictive power:

Cross-validate Model
Tune Model Hyperparameters

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