



70-774^{Q&As}

Perform Cloud Data Science with Azure Machine Learning

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QUESTION 1

You have an Azure Machine Learning environment.

You are evaluating whether to use R code or Python.

Which three actions can you perform by using both R code and Python in the Machine Learning environment? Each correct answer presents a complete solution.

NOTE: Each correct selection is worth one point.

- A. Preprocess, cleanse, and group data.
- B. Score a training model.
- C. Create visualizations.
- D. Create an untrained model that can be used with the Train Model module.
- E. Implement feature ranking.

Correct Answer: ABC

QUESTION 2

You are building an Azure Machine Learning experiment.

You need to transform a string column that has 47 distinct values into a binary indicator column. The solution must use the One-vs-All Multiclass model.

Which module should you use?

- A. Select Column Transform
- B. Convert to Indicator Values
- C. Group Categorical Values
- D. Edit Metadata

Correct Answer: B

QUESTION 3

You have an Apache Spark cluster in Azure HDInsight. The cluster includes 200 TB in five Apache Hive tables that have multiple foreign key relationships.

You have an Azure Machine Learning model that was built by using SPARK Accelerated Failure Time (AFT) Survival Regression Model (spark-survreg).

You need to prepare the Hive data into a single table as input for the Machine Learning model. The Hive data must be



prepared in the least amount of time possible.

What should you use to prepare the data?

- A. a Hive user-defined function (UDF)
- B. Spark SQL
- C. the GPU
- D. Java Mapreduce jobs

Correct Answer: A

QUESTION 4

Note: This question is part of a series of questions that use the same or similar answer choices. An answer choice may be correct for more than one question in the series. Each question is independent of the other questions in this series. Information and details provided in a question apply only to that question.

You have a non-tabular file that is saved in Azure Blob storage.

You need to download the file locally, access the data in the file, and then format the data as a dataset.

Which module should you use?

- A. Execute Python Script
- B. Tune Model Hyperparameters
- C. Normalize Data
- D. Select Columns in Dataset
- E. Import Data
- F. Edit Metadata
- G. Clip Values
- H. Clean Missing Data

Correct Answer: E

References: <https://msdn.microsoft.com/en-us/library/azure/mt674698.aspx>

QUESTION 5

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 designing an Azure Machine Learning workflow.

You have a dataset that contains two million large digital photographs. You plan to detect the presence of trees in the photographs.

You need to ensure that your model supports the following:

Solution: You create a Machine Learning experiment that implements the Multiclass Decision Jungle module.

Does this meet the goal?

A. Yes

B. No

Correct Answer: B

QUESTION 6

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 7

HOTSPOT

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.


The image files to train the object recognition model are stored in a Microsoft SQL Server 2016 Standard edition database on an Azure virtual machine (VM).

You need to support R packages that can use full parallel threading and processing for RevoScaleR.

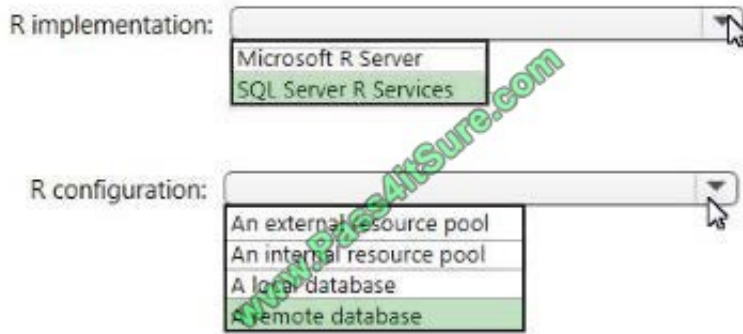
How should you implement R? To answer, select the appropriate options in the answer area. NOTE: Each correct selection is worth one point.

Hot Area:

R implementation: 

R configuration: 

Correct Answer:



QUESTION 8

You are building an Azure Machine Learning experiment.

You need to transform a string column into a label column for a Multiclass Decision Jungle module.

Which module should you use?

- A. Select Columns Transform
- B. Group Categorical Values
- C. Convert to Indicator Values
- D. Edit Metadata

Correct Answer: D

QUESTION 9

Note: This question is part of a series of questions that use the same or similar answer choices. An answer choice may be correct for more than one question in the series. Each question is independent of the other questions in this series.

Information and details provided in a question apply only to that question.

You have a dataset that contains a column named Column1. Column1 is empty. You need to omit Column1 from the dataset. The solution must use a native module.

Which module should you use?

- A. Execute Python Script
- B. Tune Model Hyperparameters
- C. Normalize Data
- D. Select Columns in Dataset



E. Import Data

F. Edit Metadata

G. Clip Values

H. Clean Missing Data

Correct Answer: D

References: <https://msdn.microsoft.com/en-us/library/azure/dn905883.aspx>

QUESTION 10

Note: This question is part of a series of questions that use the same or similar answer choices. An answer choice may be correct for more than one question in the series. Each question is independent of the other questions in this series.

Information and details provided in a question apply only to that question.

You need to transform the columns in a dataset. The resulting data must be mean centered and have a variance of L. The solution must use a native module.

Which module should you use?

A. Execute Python Script

B. Import Data

C. Edit Metadata

D. Select Columns in Dataset

E. Clean Missing Data

F. Tune Model Hyperparameters

G. Clip Values

H. Normalize Data

Correct Answer: H

QUESTION 11

The manager of a call center reports that staffing the center is difficult because the number of calls is unpredictable. You have historical data that contains information about the calls. You need to build an Azure Machine Learning experiment to predict the number of total calls each hour. Which model should you use?

A. Multiclass Logistic Regression

B. Boosted Decision Tree Regression

C. Decision Forest Regression



D. Poisson Regression

Correct Answer: D

QUESTION 12

You plan to use Azure Machine Learning to develop a predictive model. You plan to include an Execute Python Script module. What capability does the module provide?

- A. importing Python modules from a ZIP file for execution in a Machine Learning experiment
- B. performing interactive debugging of a Python script
- C. saving the results of a Python script run in a Machine Learning environment to a local file
- D. returning multiple data frames

Correct Answer: A

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