

DP-100^{Q&As}

Designing and Implementing a Data Science Solution on Azure

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QUESTION 1

DRAG DROP

You need to visually identify whether outliers exist in the Age column and quantify the outliers before the outliers are removed.

Which three Azure Machine Learning Studio modules should you use in sequence? To answer, move the appropriate modules from the list of modules to the answer area and arrange them in the correct order.

Select and Place:



Correct Answer:





You can use the Clip Values module in Azure Machine Learning Studio, to identify and optionally replace data values that are above or below a specified threshold. This is useful when you want to remove outliers or replace them with a mean, a constant, or other substitute value.

References: https://blogs.msdn.microsoft.com/azuredev/2017/05/27/data-cleansing-tools-in-azuremachine-learning/ https://docs.microsoft.com/en-us/azure/machine-learning/studio-module-reference/clipvalues

QUESTION 2

You use the Azure Machine Learning designer to create and run a training pipeline.

The pipeline must be run every night to inference predictions from a large volume of files. The folder where the files will be stored is defined as a dataset.

You need to publish the pipeline as a REST service that can be used for the nightly inferencing run.

What should you do?

- A. Create a batch inference pipeline
- B. Set the compute target for the pipeline to an inference cluster
- C. Create a real-time inference pipeline
- D. Clone the pipeline

Correct Answer: A



Azure Machine Learning Batch Inference targets large inference jobs that are not time-sensitive. Batch Inference provides cost-effective inference compute scaling, with unparalleled throughput for asynchronous applications. It is optimized for high-throughput, fire-and-forget inference over large collections of data.

You can submit a batch inference job by pipeline_run, or through REST calls with a published pipeline.

Reference: https://github.com/Azure/MachineLearningNotebooks/blob/master/how-to-use-azureml/machine-learning-pipelines/parallel-run/README.md

QUESTION 3

You create an Azure Machine Learning workspace named ML-workspace. You also create an Azure Databricks workspace named DB-workspace. DB-workspace contains a cluster named DB-cluster.

You must use DB-cluster to run experiments from notebooks that you import into DB-workspace.

You need to use ML-workspace to track MLflow metrics and artifacts generated by experiments running on DB-cluster. The solution must minimize the need for custom code.

What should you do?

- A. From DB-cluster, configure the Advanced Logging option.
- B. From DB-workspace, configure the Link Azure ML workspace option.
- C. From ML-workspace, create an attached compute.
- D. From ML-workspace, create a compute cluster.
- Correct Answer: B

Connect your Azure Databricks and Azure Machine Learning workspaces:

Linking your ADB workspace to your Azure Machine Learning workspace enables you to track your experiment data in the Azure Machine Learning workspace.

To link your ADB workspace to a new or existing Azure Machine Learning workspace

1.

Sign in to Azure portal.

2.

Navigate to your ADB workspace\\'s Overview page.

3.

Select the Link Azure Machine Learning workspace button on the bottom right.



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R New support request	Documentation	Getting Started			Import Data from	Azure Storage	
	Notebook	Admin Guide	Link Azure ML wor	kspace			
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Reference: https://docs.microsoft.com/en-us/azure/machine-learning/how-to-use-mlflow-azure-databricks

QUESTION 4

HOTSPOT

You need to build a feature extraction strategy for the local models.

How should you complete the code segment? To answer, select the appropriate options in the answer area;

NOTE: Each correct selection is worth one point.

Hot Area:



with C.layers.default_options(init-C.glorot_uniform(), activation=C.relu); h = features

h = C.layers.Convolution2D(num_filters=8...)(h)

h = C.layers.MaxPooling(filter_shape=(3.3)...)(h)

h = C.layers.Convolution2D(num_filters=16...)(h)

h = C.layers.MaxPooling(filter_shape=(2.2)...)(h)

r = C.layers.Dense...

h = C.layers.MaxPooling(filter_shape=(3.3))(h)	
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h = C.layers.MaxPooling(filter_shape=(2.2)...)(h)

h = C.layers.Convolution2D(num_filters=8...)(h)

h = C.layers.Convolution2D(num_filters=16...)(h)

h = C.layers.Convolution2D(num_filters=16...)(h)

h = C.layers.Convolution2D(num_filters=8...)(h)

h = C.layers.MaxPooling(filter_shape=(2.2)...)(h)

h = C.layers.MaxPooling(filter_shape=(3.3)...)(h)





Correct Answer:



with C.layers.default_options(init-C.glorot_uniform(), activation=C.relu); h = features

h = C.layers.Convolution2D(num_filters=8...)(h)
h = C.layers.MaxPooling(filter_shape=(3.3)...)(h)
h = C.layers.Convolution2D(num_filters=16...)(h)
h = C.layers.MaxPooling(filter_shape=(2.2)...)(h)

r = C.layers.Dense...

h = C.layers.MaxPooling(filter_shape=(3.3)…)(h)

h = C.layers.MaxPooling(filter_shape=(2.2)...)(h)

h = C.layers.Convolution2D(num_filters=8...)(h)

h = C.layers.Convolution2D(num_filters=16...)(h)

h = C.layers.Convolution2D(num_filters=16...)(h) h = C.layers.Convolution2D(num_filters=8...)(h)

h = C.layers.MaxPooling(filter_shape=(2.2)...)(h)

h = C.layers.MaxPooling(filter_shape=(3.3)...)(h)





QUESTION 5

You are a lead data scientist for a project that tracks the health and migration of birds. You create a multi- class image classification deep learning model that uses a set of labeled bird photographs collected by experts. You have 100,000 photographs of birds. All photographs use the JPG format and are stored in an Azure blob container in an Azure subscription.

You need to access the bird photograph files in the Azure blob container from the Azure Machine Learning service workspace that will be used for deep learning model training. You must minimize data movement.

What should you do?

A. Create an Azure Data Lake store and move the bird photographs to the store.

B. Create an Azure Cosmos DB database and attach the Azure Blob containing bird photographs storage to the database.

C. Create and register a dataset by using TabularDataset class that references the Azure blob storage containing bird photographs.

D. Register the Azure blob storage containing the bird photographs as a datastore in Azure Machine Learning service.

E. Copy the bird photographs to the blob datastore that was created with your Azure Machine Learning service workspace.

Correct Answer: D

We recommend creating a datastore for an Azure Blob container. When you create a workspace, an Azure blob container and an Azure file share are automatically registered to the workspace.

Reference: https://docs.microsoft.com/en-us/azure/machine-learning/how-to-access-data

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