



DP-100^{Q&As}

Designing and Implementing a Data Science Solution on Azure

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**QUESTION 1**

You use Azure Machine Learning designer to create a real-time service endpoint. You have a single Azure Machine Learning service compute resource.

You train the model and prepare the real-time pipeline for deployment.

You need to publish the inference pipeline as a web service.

Which compute type should you use?

- A. a new Machine Learning Compute resource
- B. Azure Kubernetes Services
- C. HDInsight
- D. the existing Machine Learning Compute resource
- E. Azure Databricks

Correct Answer: B

Azure Kubernetes Service (AKS) can be used real-time inference.

Reference: <https://docs.microsoft.com/en-us/azure/machine-learning/concept-compute-target>

QUESTION 2

You plan to preprocess text from CSV files. You load the Azure Machine Learning Studio default stop words list. You need to configure the Preprocess Text module to meet the following requirements:

1.

Ensure that multiple related words from a single canonical form.

2.

Remove pipe characters from text.

3.

Remove words to optimize information retrieval.

Which three options should you select? To answer, select the appropriate options in the answer area.

NOTE: Each correct selection is worth one point.

Hot Area:



Answer Area

Preprocess Text

Language

English

Remove by part of speech

False

Text column to clean

Selected columns:
Column names: **String, Feature**

Launch column selector

Remove stop words

Lemmatization

Detect sentences

Normalize case to lowercase

Remove numbers

Remove special characters

Remove duplicate characters

Remove email addresses

Remove URLs

Expand verb contractions

Normalize backslashes to slashes

Split tokens on special characters

Correct Answer:



Answer Area

Preprocess Text

Language

English

Remove by part of speech

False

Text column to clean

Selected columns:
Column names: **String, Feature**

Launch column selector

Remove stop words

Lemmatization

Detect sentences

Normalize case to lowercase

Remove numbers

Remove special characters

Remove duplicate characters

Remove email addresses

Remove URLs

Expand verb contractions

Normalize backslashes to slashes

Split tokens on special characters

Box 1: Remove stop words

Remove words to optimize information retrieval.

Remove stop words: Select this option if you want to apply a predefined stopword list to the text column. Stop word removal is performed before any other processes.

Box 2: Lemmatization



Ensure that multiple related words from a single canonical form.

Lemmatization converts multiple related words to a single canonical form

Box 3: Remove special characters

Remove special characters: Use this option to replace any non-alphanumeric special characters with the pipe | character.

References:

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

QUESTION 3

DRAG DROP

An organization uses Azure Machine Learning service and wants to expand their use of machine learning.

You have the following compute environments. The organization does not want to create another compute environment.

Environment name	Compute type
nb_server	Compute Instance
aks_cluster	Azure Kubernetes Service
mlc_cluster	Machine Learning Compute

You need to determine which compute environment to use for the following scenarios.

Which compute types should you use? To answer, drag the appropriate compute environments to the correct scenarios. Each compute environment 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:

Environments

-
-
-

Answer Area

Scenario

Run an Azure Machine Learning Designer training pipeline.

Deploying a web service from the Azure Machine Learning designer.

Environment

-
-

Correct Answer:



Environments

Answer Area

Scenario

Run an Azure Machine Learning Designer training pipeline.

Deploying a web service from the Azure Machine Learning designer.

Environment

Box 1: nb_server Box 2: mlc_cluster With Azure Machine Learning, you can train your model on a variety of resources or environments, collectively referred to as compute targets. A compute target can be a local machine or a cloud resource, such as an Azure Machine Learning Compute, Azure HDInsight or a remote virtual machine.

Training targets	Automated ML	ML pipelines	Azure Machine Learning designer
Local computer	yes		
Azure Machine Learning compute cluster	yes & hyperparameter tuning	yes	yes
Azure Machine Learning compute instance	yes & hyperparameter tuning	yes	yes
Remote VM	yes & hyperparameter tuning	yes	
Azure Databricks	yes (SDK local mode only)	yes	
Azure Data Lake Analytics		yes	
Azure HDInsight		yes	
Azure Batch		yes	

Reference:

<https://docs.microsoft.com/en-us/azure/machine-learning/concept-compute-target>

<https://docs.microsoft.com/en-us/azure/machine-learning/how-to-set-up-training-targets>



QUESTION 4

DRAG DROP

You are producing a multiple linear regression model in Azure Machine learning Studio.

Several independent variables are highly correlated.

You need to select appropriate methods for conducting elective feature engineering on all the data;

Which three actions should you perform in sequence? To answer, move the appropriate Actions from the list of actions to the answer area and arrange them in the correct order.

Select and Place:

Available Actions:

- Evaluate the probability function
- Build a counting transform
- Remove duplicate rows
- Use the Filter Based Feature Selection module
- Test the hypothesis using t-Test.
- Compute linear correlation

Answer Area:

-
-
-

Correct Answer:



Evaluate the probability function

Remove duplicate rows

Compute linear correlation

Use the Filter Based Feature Selection module

Build a counting transform

Test the hypothesis using t-Test.

QUESTION 5

HOTSPOT

You create a binary classification model to predict whether a person has a disease.

You need to detect possible classification errors.

Which error type should you choose for each description? To answer, select the appropriate options in the answer area.

NOTE: Each correct selection is worth one point.

Hot Area:



Answer Area

Description

Error type

A person has a disease. The model classifies the case as having a disease.

	▼
True Positives	
True Negatives	
False Positives	
False Negatives	

A person does not have a disease. The model classifies the case as having no disease.

	▼
True Positives	
True Negatives	
False Positives	
False Negatives	

A person does not have a disease. The model classifies the case as having a disease.

	▼
True Positives	
True Negatives	
False Positives	
False Negatives	

A person has a disease. The model classifies the case as having no disease.

	▼
True Positives	
True Negatives	
False Positives	
False Negatives	

Correct Answer:



Answer Area

Description

Error type

A person has a disease. The model classifies the case as having a disease.

	▼
True Positives	
True Negatives	
False Positives	
False Negatives	

A person does not have a disease. The model classifies the case as having no disease.

	▼
True Positives	
True Negatives	
False Positives	
False Negatives	

A person does not have a disease. The model classifies the case as having a disease.

	▼
True Positives	
True Negatives	
False Positives	
False Negatives	

A person has a disease. The model classifies the case as having no disease.

	▼
True Positives	
True Negatives	
False Positives	
False Negatives	

Box 1: True Positive

A true positive is an outcome where the model correctly predicts the positive class

Box 2: True Negative

A true negative is an outcome where the model correctly predicts the negative class.

Box 3: False Positive

A false positive is an outcome where the model incorrectly predicts the positive class.



Box 4: False Negative

A false negative is an outcome where the model incorrectly predicts the negative class.

Note: Let's make the following definitions:

"Wolf" is a positive class.

"No wolf" is a negative class.

We can summarize our "wolf-prediction" model using a 2x2 confusion matrix that depicts all four possible outcomes:

Reference:

<https://developers.google.com/machine-learning/crash-course/classification/true-false-positive-negative>

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