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Microsoft DP-100: Designing and Implementing a Data Science Solution on Azure is a certification exam that is designed to evaluate a candidate's knowledge and skills in designing and implementing data science solutions on Microsoft Azure. DP-100 Exam is intended for data professionals, data scientists, and developers who want to demonstrate their expertise in implementing big data solutions on the Azure platform.

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## Microsoft Designing and Implementing a Data Science Solution on Azure Sample Questions (Q15-Q20):

### NEW QUESTION # 15

You need to replace the missing data in the AccessibilityToHighway columns.

How should you configure the Clean Missing Data module? To answer, select the appropriate options in the answer area.

NOTE: Each correct selection is worth one point.

Properties      Project

### ▲ Clean Missing Data

Columns to be cleaned

**Selected columns:**

**Column names:** AccessibilityToHighway

Launch column selector

Minimum missing value ratio

0

Maximum missing value ratio

1

Cleaning mode

- Replace using MICE
- Replace with Mean
- Replace with Median
- Replace with Mode

Cols with all missing values.

- Propagate
- Remove

☒ Generate missing value indicator column

Number of iterations

5

**Answer:**

Explanation:

## Clean Missing Data

Columns to be cleaned

**Selected columns:**

**Column names:** AccessibilityToHighway

Launch column selector

Minimum missing value ratio

0

Maximum missing value ratio

1

Cleaning mode

Replace using MICE

Replace with Mean

Replace with Median

Replace with Mode

Cols with all missing values.

Propagate

Remove

☒ Generate missing value indicator column

Number of iterations

5

Explanation:

Box 1: Replace using MICE

Replace using MICE: For each missing value, this option assigns a new value, which is calculated by using a method described in the statistical literature as "Multivariate Imputation using Chained Equations" or "Multiple Imputation by Chained Equations". With a multiple imputation method, each variable with missing data is modeled conditionally using the other variables in the data before filling in the missing values.

Scenario: The AccessibilityToHighway column in both datasets contains missing values. The missing data must be replaced with new data so that it is modeled conditionally using the other variables in the data before filling in the missing values.

Box 2: Propagate

Cols with all missing values indicate if columns of all missing values should be preserved in the output.

References:

<https://docs.microsoft.com/en-us/azure/machine-learning/studio-module-reference/clean-missing-data>

## NEW QUESTION # 16

You are hired as a data scientist at a winery. The previous data scientist used Azure Machine Learning. You need to review the models and explain how each model makes decisions.

Which explainer modules should you use? To answer, select the appropriate options in the answer area.

NOTE: Each correct selection is worth one point.

A random forest model for predicting the alcohol content in wine given a set of covariates

	▼
Tabular	
HAN	
Text	
Image	

A natural language processing model for analyzing field reports

	▼
Tree	
HAN	
Text	
Image	

An image classifier that determines the quality of the grape based upon its physical characteristics.

	▼
Kernel	
HAN	
Text	
Image	

Answer:

Explanation:

Model type

Explainer

A random forest model for predicting the alcohol content in wine given a set of covariates

	▼
Tabular	
HAN	
Text	
Image	


A natural language processing model for analyzing field reports

	▼
Tree	
HAN	
Text	
Image	

An image classifier that determines the quality of the grape based upon its physical characteristics.

	▼
Kernel	
HAN	
Text	
Image	

Explanation:

Model type	Explainer
A random forest model for predicting the alcohol content in wine given a set of covariates	<div>▼</div> <div>Tabular</div> <div>HAN</div> <div>Text</div> <div>Image</div>
A natural language processing model for analyzing field reports	<div>  <div>▼</div> <div>Tree</div> <div>HAN</div> <div>Text</div> <div>Image</div> </div>
An image classifier that determines the quality of the grape based upon its physical characteristics.	<div>▼</div> <div>Kernel</div> <div>HAN</div> <div>Text</div> <div>Image</div>

Meta explainers automatically select a suitable direct explainer and generate the best explanation info based on the given model and data sets. The meta explainers leverage all the libraries (SHAP, LIME, Mimic, etc.) that we have integrated or developed. The following are the meta explainers available in the SDK:

Tabular Explainer: Used with tabular datasets.

Text Explainer: Used with text datasets.

Image Explainer: Used with image datasets.

Box 1: Tabular

Box 2: Text

Box 3: Image

Reference:

<https://medium.com/microsoftazure/automated-and-interpretable-machine-learning-d07975741298>

### NEW QUESTION # 17

You need to implement early stopping criteria as suited in the model training requirements.

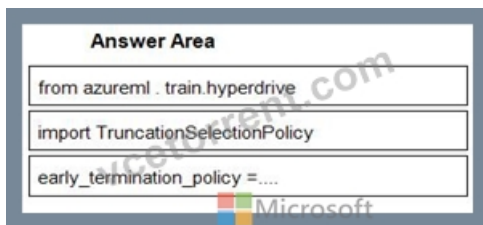
Which three code segments should you use to develop the solution? To answer, move the appropriate code segments from the list of code segments to the answer area and arrange them in the correct order.

NOTE: More than one order of answer choices is correct. You will receive credit for any of the correct orders you select.

Code segments	Answer Area
<code>early_termination_policy = TruncationSelectionPolicy(evaluation_interval=1, truncation_percentage=20, delay_evaluation=5)</code>	<div> <div>⬅</div> <div>➡</div> <div>⬅</div> <div>➡</div> </div> <div> <div>⬅</div> <div>➡</div> <div>⬅</div> <div>➡</div> </div>
<code>import TruncationSelectionPolicy</code>	
<code>from azureml.train.hyperdrive</code>	
<code>import BanditPolicy</code>	
<code>early_termination_policy = BanditPolicy(slack_factor = 0.1, evaluation_interval=1, delay_evaluation=5)</code>	

**Answer:**

Explanation:



- 1 - from azureml . train.hyperdrive
- 2 - import TruncationSelectionPolicy
- 3 - early\_termination\_policy =....

Reference:

<https://docs.microsoft.com/en-us/azure/machine-learning/service/how-to-tune-hyperparameters>

### NEW QUESTION # 18

You use the following code to define the steps for a pipeline:

```
from azureml.core import Workspace, Experiment, Run
from azureml.pipeline.core import Pipeline
from azureml.pipeline.steps import PythonScriptStep
ws = Workspace.from_config()
```

```
...
step1 = PythonScriptStep(name="step1", ...)
step2 = PythonScriptStep(name="step2", ...)
pipeline_steps = [step1, step2]
```

You need to add code to run the steps.

Which two code segments can you use to achieve this goal? Each correct answer presents a complete solution.

NOTE: Each correct selection is worth one point.

```
experiment = Experiment(workspace=ws,
```

- A. name='pipeline-experiment')  
run = experiment.submit(config=pipeline\_steps)  
run = Run(pipeline\_steps)
- B. experiment = Experiment(workspace=ws,  
name='pipeline-experiment')  
run = experiment.submit(pipeline)  
pipeline = Pipeline(workspace=ws, steps=pipeline\_steps)
- C. pipeline = Pipeline(workspace=ws, steps=pipeline\_steps)
- D. run = pipeline.submit(experiment\_name='pipeline-experiment')

**Answer: B,D**

Explanation:

After you define your steps, you build the pipeline by using some or all of those steps.

# Build the pipeline. Example:

```
pipeline1 = Pipeline(workspace=ws, steps=[compare_models])
```

# Submit the pipeline to be run

```
pipeline_run1 = Experiment(ws, 'Compare_Models_Exp').submit(pipeline1)
```

Reference:

<https://docs.microsoft.com/en-us/azure/machine-learning/how-to-create-machine-learning-pipelines>

### NEW QUESTION # 19

You configure a Deep Learning Virtual Machine for Windows.

You need to recommend tools and frameworks to perform the following:

Build deep neural network (DNN) models

Perform interactive data exploration and visualization

Which tools and frameworks should you recommend? To answer, drag the appropriate tools to the correct tasks. Each tool 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.

Tools	Answer Area	
	Task	Tool
Vowpal Wabbit	Build DNN models	Tool
PowerBI Desktop	Enable interactive data exploration and visualization	Tool
Azure Data Factory		
Microsoft Cognitive Toolkit		

**Answer:**

**Explanation:**

Tools	Answer Area	
	Task	Tool
Vowpal Wabbit	Build DNN models	Vowpal Wabbit
PowerBI Desktop	Enable interactive data exploration and visualization	PowerBI Desktop
Azure Data Factory		
Microsoft Cognitive Toolkit		

**Explanation:**

Box 1: Vowpal Wabbit

Use the Train Vowpal Wabbit Version 8 module in Azure Machine Learning Studio (classic), to create a machine learning model by using Vowpal Wabbit.

Box 2: PowerBI Desktop

Power BI Desktop is a powerful visual data exploration and interactive reporting tool BI is a name given to a modern approach to business decision making in which users are empowered to find, explore, and share insights from data across the enterprise.

References:

<https://docs.microsoft.com/en-us/azure/machine-learning/studio-module-reference/train-vowpal-wabbit-version-8-model>

<https://docs.microsoft.com/en-us/azure/architecture/data-guide/scenarios/interactive-data-exploration>

## NEW QUESTION # 20

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