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DP-100: Designing and Implementing a Data Science Solution on Azure

Question 21

You have published a pipeline that you want to run every week. You plan to use the `Schedule.create` method to create the schedule. What kind of object must you create first to configure how frequently the pipeline runs? (Orchestrating Operations with Pipelines)

Check the answer and show the description

Answer is **Schedule recurrence**. You need a **Schedule recurrence** object to create a schedule that runs at a regular interval.

Question 22

You have trained a model using the Python SDK for Azure Machine Learning. You want to deploy the model as a containerized real-time service with high scalability and security. What kind of compute should you create to host the service? (Deploying and Consuming Models)

Check the answer and show the description

Answer is **An Azure Kubernetes Services (AKS) inferencing cluster**. You should use an AKS cluster to deploy a model as a scalable, secure, containerized service.

Question 23

You are deploying a model as a real-time inferencing service. What functions must the entry script for the service include? (Deploying and Consuming Models)

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Microsoft Designing and Implementing a Data Science Solution on Azure Sample Questions (Q130-Q135):

NEW QUESTION # 130

You need to define a modeling strategy for ad response.

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.

Action

Implement a K-Means Clustering model.

Use the raw score as a feature in a Score Matchbox Recommender model.

Use the cluster as a feature in a Decision Jungle model.

Use the raw score as a feature in a Logistic Regression model.

Implement a Sweep Clustering model.

Answer area



Answer:

Explanation:

Answer Area

Implement a K-Means Clustering model

Use the cluster as a feature in a Decision jungle model.

Use the raw score as a feature in a Score Matchbox Recommender model

1 - Implement a K-Means Clustering model

2 - Use the cluster as a feature in a Decision jungle model.

3 - Use the raw score as a feature in a Score Matchbox Recommender model Reference:

<https://docs.microsoft.com/en-us/azure/machine-learning/studio-module-reference/multiclass-decision-jungle>

<https://docs.microsoft.com/en-us/azure/machine-learning/studio-module-reference/score-matchbox-recommender>

NEW QUESTION # 131

You plan to use a Data Science Virtual Machine (DSVM) with the open source deep learning frameworks Caffe2 and Theano. You need to select a pre configured DSVM to support the framework.

What should you create?

- A. Data Science Virtual Machine for Windows 2016
- B. Data Science Virtual Machine for Windows 2012
- C. Geo AI Data Science Virtual Machine with ArcGIS

- D. Data Science Virtual Machine for Linux (CentOS)
- E. Data Science Virtual Machine for Linux (Ubuntu)

Answer: D

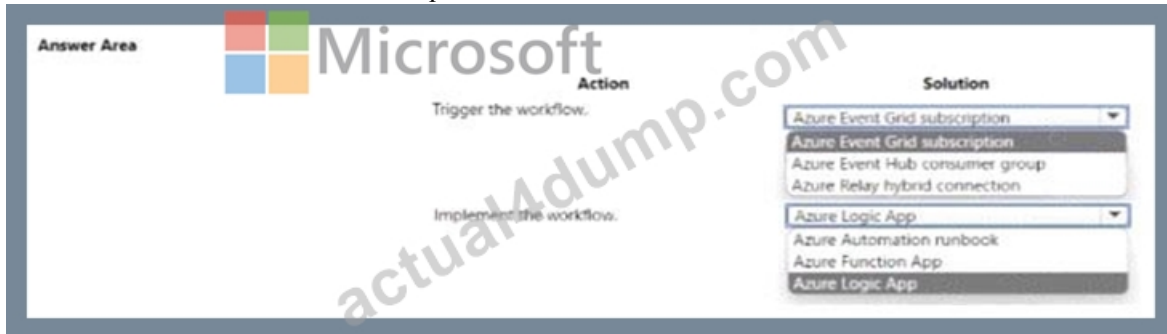
NEW QUESTION # 132

You use an Azure Machine Learning workspace. Azure Data Factory/ pipeline, and a dataset monitor that runs on a schedule to detect data drift.

You need to Implement an automated workflow to trigger when the dataset monitor detects data drift and launch the Azure Data Factory pipeline to update the dataset. The solution must minimize the effort to configure the workflow.

How should you configure the workflow? To answer select the appropriate options in the answer area.

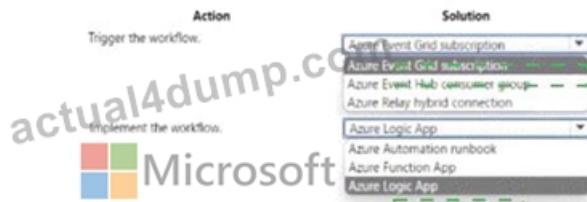
NOTE: Each correct selection is worth one point.



Answer:

Explanation:

Answer Area



Explanation:

Answer Area



NEW QUESTION # 133

You collect data from a nearby weather station. You have a pandas dataframe named weather_df that includes the following data:

Temperature	Observation_time	Humidity	Pressure	Visibility	Days_since_last observation
74	2019/10/2 00:00	0.62	29.87	3	0.5
89	2019/10/2 12:00	0.70	28.88	10	0.5
72	2019/10/3 00:00	0.64	30.00	8	0.5
80	2019/10/3 12:00	0.66	29.75	7	0.5

The data is collected every 12 hours: noon and midnight.

You plan to use automated machine learning to create a time-series model that predicts temperature over the next seven days. For the initial round of training, you want to train a maximum of 50 different models.

You must use the Azure Machine Learning SDK to run an automated machine learning experiment to train these models.

You need to configure the automated machine learning run.

How should you complete the AutoMLConfig definition? To answer, select the appropriate options in the answer area.

NOTE: Each correct selection is worth one point.

```
automl_config = AutoMLConfig(task="
```

▼
regression
forecasting
classification
deep learning

```
training_data=weather_df,  
label_column_name="
```

▼
humidity
pressure
visibility
temperature
days_since_last
observation_time

```
time_column_name="
```

▼
humidity
pressure
visibility
temperature
days_since_last
observation_time

```
max_horizon=
```

▼
2
6
7
12
14
50

```
iterations=
```

▼
2
6
7
12
14
50

```
iteration_timeout_minutes=5,  
primary_metric="r2_score")
```



Answer:

Explanation:

```
automl_config = AutoMLConfig(task="
```

▼
regression
forecasting
classification
deep learning

```
training_data=weather_df,  
label_column_name="
```

▼
humidity
pressure
visibility
temperature
days_since_last
observation_time

```
time_column_name="
```

▼
humidity
pressure
visibility
temperature
days_since_last
observation_time

```
max_horizon=
```

▼
2
6
7
12
14
50



```
iterations=
```

▼
2
6
7
12
14
50

```
iteration_timeout_minutes=5,  
primary_metric="r2_score")
```

Reference:

<https://docs.microsoft.com/en-us/python/api/azureml-train-automl-client/azureml.train.automl.automlconfig.automlconfig>

NEW QUESTION # 134

You are analyzing a raw dataset that requires cleaning.

You must perform transformations and manipulations by using Azure Machine Learning Studio.

You need to identify the correct modules to perform the transformations.

Which modules should you choose? To answer, drag the appropriate modules to the correct scenarios. 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.

Answer Area



Methods

Clean Missing Data

SMOTE

Convert to Indicator Values

Remove Duplicate Rows

Threshold Filter

Scenario

Replace missing values by removing rows and columns.

Increase the number of low-incidence examples in the dataset.

Convert a categorical feature into a binary indicator.

Remove potential duplicates from a dataset.

Module

Answer:

Explanation:

Answer Area



Methods

Clean Missing Data

SMOTE

Convert to Indicator Values

Remove Duplicate Rows

Threshold Filter

Scenario

Replace missing values by removing rows and columns.

Increase the number of low-incidence examples in the dataset.

Convert a categorical feature into a binary indicator.

Remove potential duplicates from a dataset.

Module

Clean Missing Data

SMOTE

Convert to Indicator Values

Remove Duplicate Rows

Explanation:

Scenario	Module
Replace missing values by removing rows and columns.	Clean Missing Data
Increase the number of low-incidence examples in the dataset.	SMOTE
Convert a categorical feature into a binary indicator.	Convert to Indicator Values
Remove potential duplicates from a dataset.	Remove Duplicate Rows

Box 1: Clean Missing Data

Box 2: SMOTE

Use the SMOTE module in Azure Machine Learning Studio to increase the number of underrepresented cases in a dataset used for

machine learning. SMOTE is a better way of increasing the number of rare cases than simply duplicating existing cases.

Box 3: Convert to Indicator Values

Use the Convert to Indicator Values module in Azure Machine Learning Studio. The purpose of this module is to convert columns that contain categorical values into a series of binary indicator columns that can more easily be used as features in a machine learning model.

Box 4: Remove Duplicate Rows

References:

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

<https://docs.microsoft.com/en-us/azure/machine-learning/studio-module-reference/convert-to-indicator-values>

NEW QUESTION # 135

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