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Microsoft Designing and Implementing a Data Science Solution on Azure Sample Questions (Q331-Q336):

NEW QUESTION # 331
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 section, you will NOT be able to return to it. As a result, these questions will not appear in the review screen.
You are analyzing a numerical dataset which contains missing values in several columns.
You must clean the missing values using an appropriate operation without affecting the dimensionality of the feature set.
You need to analyze a full dataset to include all values.
Solution: Replace each missing value using the Multiple Imputation by Chained Equations (MICE) method.
Does the solution meet the goal?

- A. NO
- B. Yes

Answer: B

Explanation:
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.
Note: Multivariate imputation by chained equations (MICE), sometimes called "fully conditional specification" or "sequential regression multiple imputation" has emerged in the statistical literature as one principled method of addressing missing data. Creating multiple imputations, as opposed to single imputations, accounts for the statistical uncertainty in the imputations. In addition, the chained equations approach is very flexible and can handle variables of varying types (e.g., continuous or binary) as well as complexities such as bounds or survey skip patterns.
Reference:
https://www.ncbi.nlm.nih.gov/pmc/articles/PMC3074241/
https://docs.microsoft.com/en-us/azure/machine-learning/studio-module-reference/clean-missing-data

NEW QUESTION # 332
Hotspot Question
You deploy a model in Azure Container Instance.
You must use the Azure Machine Learning SDK to call the model API.
You need to invoke the deployed model using native SDK classes and methods.
How should you complete the command? To answer, select the appropriate options in the answer areas.
NOTE: Each correct selection is worth one point.

Answer Area

```
from azureml.core import Workspace

[ from azureml.core.webservice import requests          ▼ ]
  from azureml.core.webservice import Webservice
  from azureml.core.webservice import LocalWebservice

import json
ws = Workspace.from_config()
service_name = "mlmodel1-service"
service = Webservice(name=service_name, workspace=ws)
x_new = [[2,101.5,1,24,21], [1,89.7,4,41,21]]
input_json = json.dumps({"data": x_new})

[                                                       ▼ ]
  predictions = service.run(input_json)
  predictions = requests.post(service.scoring_uri, input_json)
  predictions = service.deserialize(ws, input_json)
```

Answer:

Explanation:

Answer Area

```
from azureml.core import Workspace
```

```
                                                            ▼
from azureml.core.webservice import requests
from azureml.core.webservice import Webservice
from azureml.core.webservice import LocalWebservice
```

```
import json
ws = Workspace.from_config()
service_name = "mlmodel1-service"
service = Webservice(name=service_name, workspace=ws)
x_new = [[2,101.5,1,24,21], [1,89.7,4,41,21]]
input_json = json.dumps({"data": x_new})
```

```
                                                            ▼
predictions = service.run(input_json)
predictions = requests.post(service.scoring_uri, input_json)
predictions = service.deserialize(ws, input_json)
```

Explanation:

Box 1: from azureml.core.webservice import Webservice

The following code shows how to use the SDK to update the model, environment, and entry script for a web service to Azure

Container Instances:

from azureml.core import Environment

from azureml.core.webservice import Webservice

from azureml.core.model import Model, InferenceConfig

Box 2: predictions = service.run(input_json)

Example: The following code demonstrates sending data to the service:

import json

test_sample = json.dumps({'data': [

[1, 2, 3, 4, 5, 6, 7, 8, 9, 10],

[10, 9, 8, 7, 6, 5, 4, 3, 2, 1]

]})

test_sample = bytes(test_sample, encoding='utf8')

prediction = service.run(input_data=test_sample)

print(prediction)

Reference:

https://docs.microsoft.com/bs-latn-ba/azure/machine-learning/how-to-deploy-azure-container- instance

https://docs.microsoft.com/en-us/azure/machine-learning/how-to-troubleshoot-deployment

NEW QUESTION # 333

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.

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

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

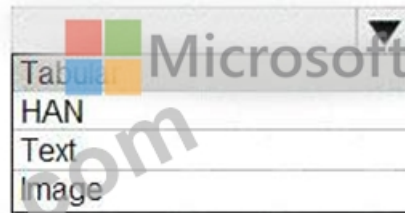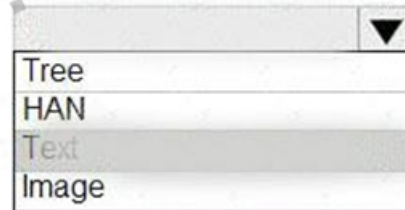| Model type	Explainer
A random forest model for predicting the alcohol content in wine given a set of covariates	▼ Tabular ~~Microsoft~~ HAN Text Image
A natural language processing model for analyzing field reports	▼ Tree HAN Text Image
An image classifier that determines the quality of the grape based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

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 # 334

You manage an Azure Machine Learning workspace named workspace1 by using the Python SDK v2.

The default datastore of workspace1 contains a folder named sample_dat

a. The folder structure contains the following content:


```
├── sample_data
│   ├── MLTable
│   ├── file1.txt
│   ├── file2.txt
│   └── file3.txt
```

You write Python SDK v2 code to materialize the data from the files in the sample.data folder into a Pandas data frame. You need to complete the Python SDK v2 code to use the MLTaWe folder as the materialization blueprint. How should you complete the code? To answer, select the appropriate options in the answer area.

NOTE: Each correct selection is worth one point.

Answer Area

```
import mltable
tbl = mltable.[load ▾] ([./sample_data/MLTable ▾]")
df = tbl.to_pa...      0
        load              ./sample_data
        save              ./sample_data/MLTable
        take              ./sample_data/file*.txt
```

Answer:

Explanation:

NEW QUESTION # 335

You use Azure Machine Learning to train a model. You must use Bayesian sampling to tune hyperparameters. You need to select a ieaming_rate parameter distribution.

Which two distributions can you use? Each correct answer presents a complete solution. NOTE: Each correct selection is worth one point.

- A. Normal
- B. Choice
- C. Uniform
- D. QNormal
- E. LogUniform

Answer: B,C

NEW QUESTION # 336

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