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AYT TARAMA TESTİ-20
MATEMATİK

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1. Aşağıdaki koordinat düzleminde f fonksiyonunu birim çevreler grafiği veriliyor.

Buna göre $y = f(x)$ fonksiyonu ile ilgili aşağıdaki ifadelerden hangisi doğrudur?

A) $[-2, 2]$ 'de artandır.
B) $[2, 4]$ 'de azalır.
C) Heriki minimum noktasının apsisler toplamı 4'dür.
D) En büyük minimum noktasının apsisler toplamı -4 'tür.
E) Heriki maksimum noktasının apsisler toplamı 0'dir.

1. Dik koordinat düzleminde $2, 4$ 'hda f ve g fonksiyonlarını grafiği veriliyor.

Buna göre

I. $f'(2) = g'(2)$
II. $\frac{f(4)}{g(4)}$
III. $f(4) = g(4)$

fonksiyonlarından hangileri aynı anlama dağana artandır?

A) I ve II B) II ve III C) I ve III
D) I ve III E) I, II ve III

1. $f(x) = x^2 - 2x + 2$ olduğuna göre, $f'(x)$ fonksiyonunun azaltıcı olduğu en geniş aralık aşağıdakilerden hangisidir?

A) $(-\infty, -1) \cup (1, 2)$ B) $(-1, 1) \cup (2, +\infty)$
C) $(-\infty, 2) \cup (1, +\infty)$ D) $(1, +\infty)$
E) $(-\infty, 1)$

2. Gerçek sayılar kümesinde bir aralığında tanımlı fonksiyonu $f(x) = \frac{2x-4}{3x+4}$ biçiminde tanımlanıyor. f fonksiyonu dağana artan olduğuna göre, k 'nin en geniş değer aralığı aşağıdakilerden hangisidir?

A) $(-\infty, 4)$ B) $(-4, +\infty)$ C) $(4, 12)$
D) $(k, +\infty)$ E) $(12, +\infty)$

4. $f(x) = x^2 - 3x - 7$ biçiminde bir f fonksiyonu tanımlanıyor.

Buna göre, f fonksiyonunun ekstremum noktalarının apsisler toplamı kaçtır?

A) 3 B) 6 C) 7 D) 9 E) 12

1. $f(x) = x^2 + ax^2 + 5x + 1$ fonksiyonunun yerel maksimum noktası $(1, 7)$ olduğuna göre $a = 3$ değeri kaçtır?

A) -9 B) -2 C) 0 D) 1 E) 5

2. Gerçek sayılar kümesinde tanımlı fonksiyonunun birim çevreler grafiği aşağıda veriliyor.

$f(x)$ fonksiyonunun mutlak maksimum değeri 2 $f(x) = f(x) + 2$ ve $f(x) = f(x) + 1$ olduğuna göre, a, b, c, d gerçel sayılarının sıralanması aşağıdakilerden hangisi olabilir?

A) $a < b < c < d$ B) $b < c < a < d$ C) $a < c < d < b$
D) $d < a < b < c$ E) $a < c < b < d$

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Microsoft Designing and Implementing a Data Science Solution on Azure Sample Questions (Q514-Q519):

NEW QUESTION # 514

You have a dataset that contains 2,000 rows. You are building a machine learning classification model by using Azure Learning Studio. You add a Partition and Sample module to the experiment.

You need to configure the module. You must meet the following requirements:

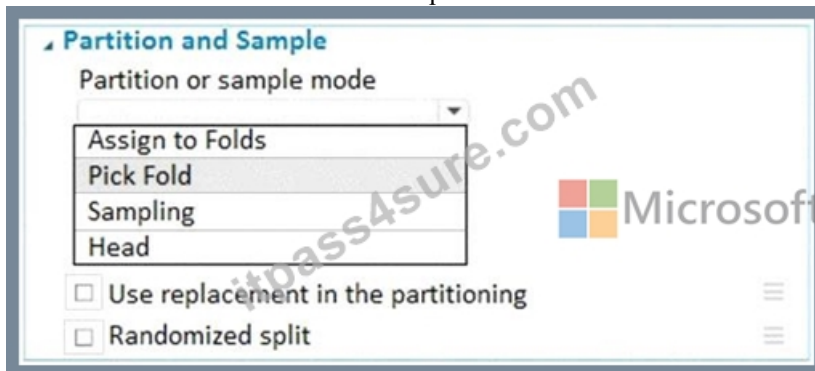
Divide the data into subsets

Assign the rows into folds using a round-robin method

Allow rows in the dataset to be reused

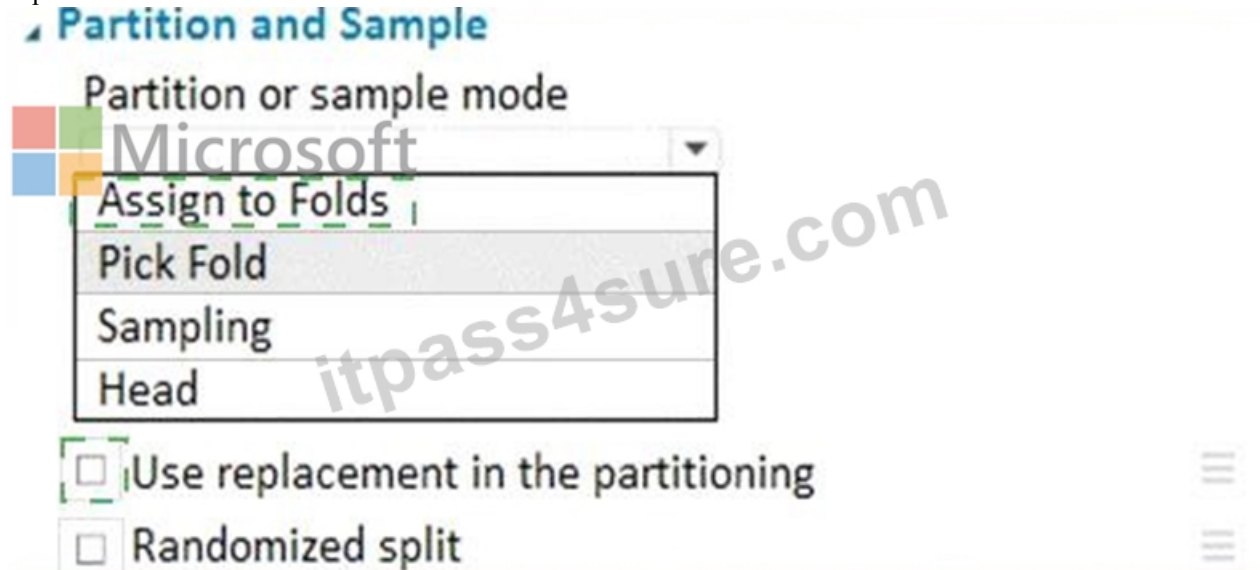
How should you configure the module? To answer, select the appropriate options in the dialog box in the answer area.

NOTE: Each correct selection is worth one point.

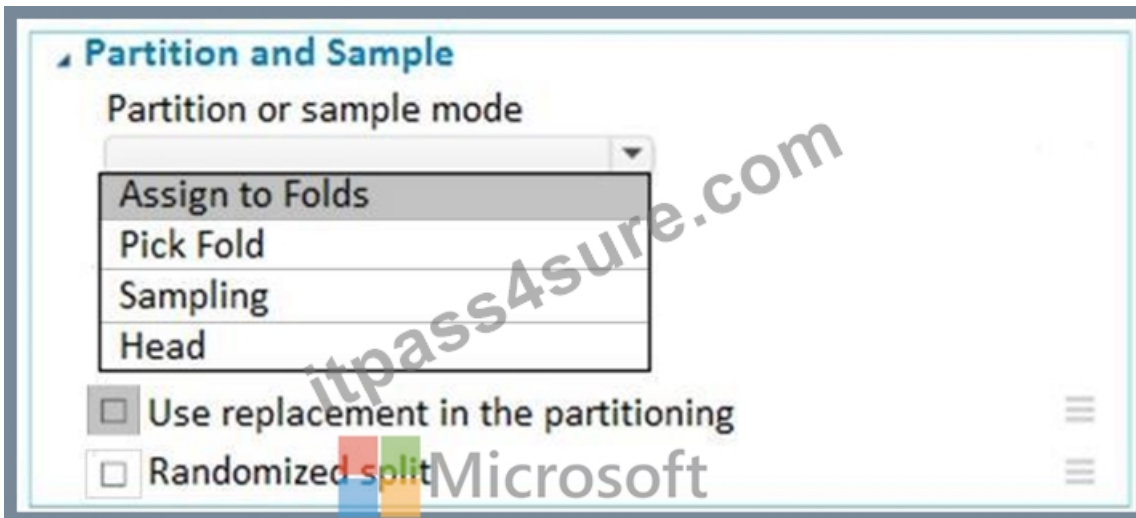


Answer:

Explanation:



Explanation:



Use the Split data into partitions option when you want to divide the dataset into subsets of the data. This option is also useful when you want to create a custom number of folds for cross-validation, or to split rows into several groups.

Add the Partition and Sample module to your experiment in Studio (classic), and connect the dataset.

For Partition or sample mode, select Assign to Folds.

Use replacement in the partitioning: Select this option if you want the sampled row to be put back into the pool of rows for potential reuse. As a result, the same row might be assigned to several folds.

If you do not use replacement (the default option), the sampled row is not put back into the pool of rows for potential reuse. As a result, each row can be assigned to only one fold.

Randomized split: Select this option if you want rows to be randomly assigned to folds.

If you do not select this option, rows are assigned to folds using the round-robin method.

References:

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

NEW QUESTION # 515

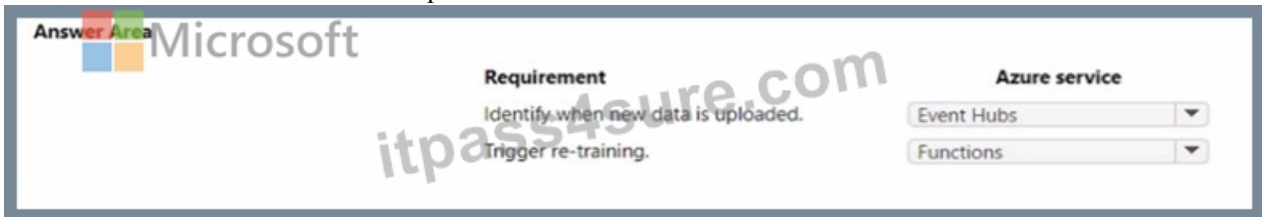
You train a model by using Azure Machine Learning. You use Azure Blob Storage to store production data.

The model must be re-trained when new data is uploaded to Azure Blob Storage. You need to minimize development and coding.

You need to configure Azure services to develop a re-training solution.

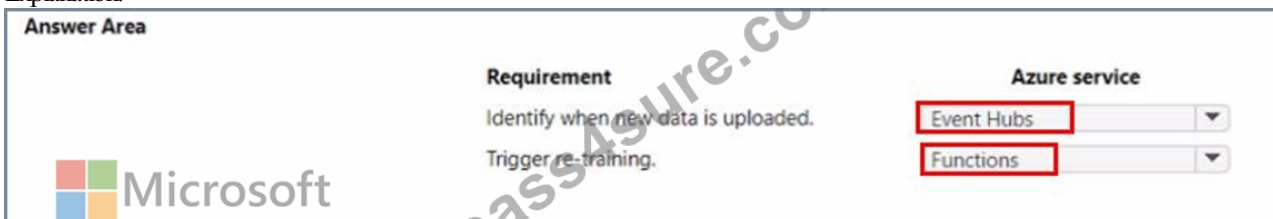
Which Azure services should you use? To answer, select the appropriate options in the answer area.

NOTE: Each correct selection is worth one point.



Answer:

Explanation:



NEW QUESTION # 516

You have a dataset that contains records of patients tested for diabetes. The dataset includes the patient's age.

You plan to create an analysis that will report the mean age value from the differentially private data derived from the dataset- You need to identify the epsilon value to use in the analysis that minimizes the risk of exposing the actual data.

Which epsilon value should you use?

- A. -0.5
- B. 0.5
- C. 1.5
- D. -1.5

Answer: B

NEW QUESTION # 517

You write code to retrieve an experiment that is run from your Azure Machine Learning workspace. The run used the model interpretation support in Azure Machine Learning to generate and upload a model explanation. Business managers in your organization want to see the importance of the features in the model. You need to print out the model features and their relative importance in an output that looks similar to the following.

```
feature      Importance
0           1.5627435610083558
1           0.6077689312583112
2           0.5574002432900718
3           0.42858759955671777
4           0.3501361539771977
```

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

NOTE: Each correct selection is worth one point.

```
# Assume required modules are imported
```



```
ws = Workspace.from_config()
feature_importances = explanation.
```

	▼ (workspace = ws,
from_run	experiment_name='train_and_explain',
list_model_explanations	run_id='train_and_explain_12345')
from_run_id	
download_model_explanation	

```
explanation = client.
```

	▼ ()
upload_model_explanation	
list_model_explanations	
run	
download_model_explanation	

```
feature_importances = explanation.
```

	▼ ()
explanation	
explanation_client	
get_feature_important_dict	
download_model_explanation	

```
for key, value in feature_importances.items():
    print(key, "\t", value)
```

Answer:

Explanation:

```
# Assume required modules are imported
```

```
ws = Workspace.from_config()  
feature_importances = explanation.
```

```
explanation = client.
```

```
feature_importances = explanation.
```

```
for key, value in feature_importances.items():  
    print(key, "\t", value)
```

The screenshot shows three dropdown menus from a Jupyter Notebook. The first dropdown is for the `feature_importances` attribute, showing methods: `from_run`, `list_model_explanations`, `from_run_id`, and `download_model_explanation`. The second dropdown is for the `explanation` attribute, showing methods: `upload_model_explanation`, `list_model_explanations`, `run`, and `download_model_explanation`. The third dropdown is for the `feature_importances` attribute, showing methods: `explanation`, `explanation_client`, `get_feature_important_dict`, and `download_model_explanation`. The code to the left of the dropdowns is partially visible.

Explanation:

```
# Assume required modules are imported
```

```
ws = Workspace.from_config()  
feature_importances = explanation.
```

```
explanation = client.
```

```
feature_importances = explanation.
```

```
for key, value in feature_importances.items():
```

The screenshot shows three dropdown menus from a Jupyter Notebook. The first dropdown is for the `feature_importances` attribute, showing methods: `from_run`, `list_model_explanations`, `from_run_id`, and `download_model_explanation`. The second dropdown is for the `explanation` attribute, showing methods: `upload_model_explanation`, `list_model_explanations`, `run`, and `download_model_explanation`. The third dropdown is for the `feature_importances` attribute, showing methods: `explanation`, `explanation_client`, `get_feature_important_dict`, and `download_model_explanation`. The code to the left of the dropdowns is partially visible.

Box 1: `from_run_id`

`from_run_id(workspace, experiment_name, run_id)`

Create the client with factory method given a run ID.

Returns an instance of the `ExplanationClient`.

Parameters

`Workspace` `Workspace` An object that represents a workspace.

`experiment_name` `str` The name of an experiment.

`run_id` `str` A GUID that represents a run.

Box 2: `list_model_explanations`

`list_model_explanations` returns a dictionary of metadata for all model explanations available.

Returns

A dictionary of explanation metadata such as id, data type, explanation method, model type, and upload time, sorted by upload time

Box 3: `explanation` Reference:

<https://docs.microsoft.com/en-us/python/api/azureml-contrib-interpret/azureml.contrib.interpret.explanation>.

`explanation_client.explanationclient?view=azure-ml-py`

NEW QUESTION # 518

You have an Azure Machine Learning workspace named `Workspace 1`. `Workspace 1` has a registered Mlflow model named `model 1`

with PyFunc flavor You plan to deploy model1 to an online endpoint named endpoint1 without egress connectivity by using Azure Machine Learning Python SDK v1 You have the following code:

```
blue_deployment = ManagedOnlineDeployment(  
    name="blue",  
    endpoint_name=endpoint1,  
    model=model1,  
    instance_type="Standard_F4s_v2",  
    instance_count=1  
)
```

You need to add a parameter to the ManagedOnlineDeployment object to ensure the model deploys successfully Solution: Add the scoring_script parameter.

Does the solution meet the goal?

- A. No
- B. Yes

Answer: B

NEW QUESTION # 519

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