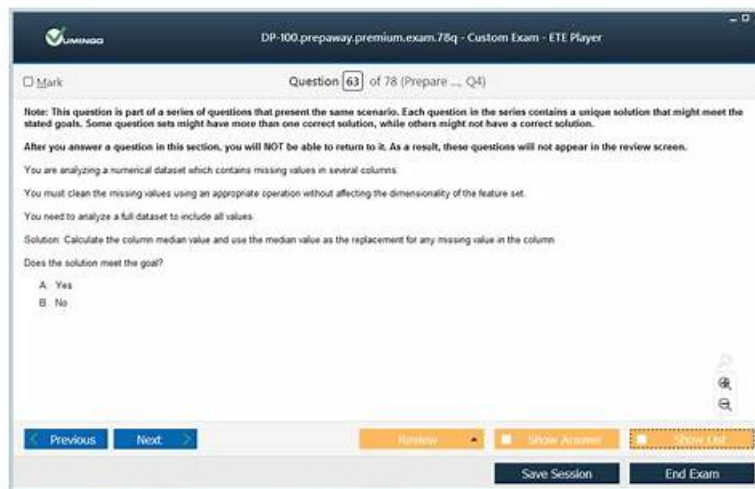


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Microsoft DP-100 certification exam is a comprehensive exam that covers a wide range of topics related to data science solutions on Azure. DP-100 exam consists of multiple-choice questions and requires the candidate to demonstrate their knowledge and understanding of data science concepts and Azure data science solutions. DP-100 Exam is designed to test the candidate's ability to design and implement data science solutions on Azure.

## Microsoft Designing and Implementing a Data Science Solution on Azure Sample Questions (Q76-Q81):

NEW QUESTION # 76

You create an Azure Machine Learning dataset. You use the Azure Machine Learning designer to transform the dataset by using an Execute Python Script component and custom code. You must upload the script and associated libraries as a script bundle. You need to configure the Execute Python Script component. Which configurations should you use? To answer, select the appropriate options in the answer area.

NOTE Each correct selection is worth one point.

**Answer Area**

**Component setting**

Input port

Script bundle format

**Configuration value**

left  
right  
middle  
left  
zip  
gzip  
zip  
tar

**Answer:**

**Explanation:**

**Answer Area**

**Component setting**

Input port

Script bundle format

**Configuration value**

left  
right  
middle  
left  
zip  
gzip  
zip  
tar

**Explanation:**

**Answer Area**

**Component setting**

Input port

Script bundle format

**Configuration value**

left  
zip

### NEW QUESTION # 77

You plan to deliver a hands-on workshop to several students. The workshop will focus on creating data visualizations using Python. Each student will use a device that has internet access. Student devices are not configured for Python development. Students do not have administrator access to install software on their devices. Azure subscriptions are not available for students. You need to ensure that students can run Python-based data visualization code. Which Azure tool should you use?

- A. C. Azure Notebooks
- B. Anaconda Data Science Platform
- C. Azure Machine Learning Service
- D. Azure BatchAI

**Answer: A**

**Explanation:**

**References:**

<https://notebooks.azure.com/>

### NEW QUESTION # 78

You have the following Azure subscriptions and Azure Machine Learning service workspaces:

Subscription	Workspace	Comment
3854dfe5-4cef-4a04-b977-3f86092727c9	ml-default	This is the default subscription.
5a5d91d1-557a-4234-9eb3-2e90412b1068	ml-project	The information required to uniquely identify this workspace is stored in the file config.json in the same folder as the Python script.

You need to obtain a reference to the ml-project workspace.

Solution: Run the following Python code:

```
from azureml.core import Workspace
ws = Workspace(workspace_name="ml-project")
```

Does the solution meet the goal?

- A. No
- B. Yes

Answer: B

### NEW QUESTION # 79

You are using C-Support Vector classification to do a multi-class classification with an unbalanced training dataset. The C-Support Vector classification using Python code shown below:

```
from sklearn.svm import SVC
import numpy as np
svc = SVC(kernel='linear', class_weight='balanced', C=1.0, random_state=0)
model = svc.fit(X_train, y)
```

You need to evaluate the C-Support Vector classification code.

Which evaluation statement should you use? To answer, select the appropriate options in the answer area.

NOTE: Each correct selection is worth one point.

Code Segment	Evaluation Statement
class_weight=balanced	<div>Automatically select the performance metrics for the classification.</div> <div>Automatically adjust weights directly proportional to class frequencies in the input data.</div> <div>Automatically adjust weights inversely proportional to class frequencies in the input data.</div>
C parameter	<div>Penalty parameter</div> <div>Degree of polynomial kernel function</div> <div>Size of the kernel cache</div>

Answer:

Explanation:

### Evaluation Statement

```
class_weight=balanced
```

- Automatically select the performance metrics for the classification.
- Automatically adjust weights directly proportional to class frequencies in the input data.
- Automatically adjust weights inversely proportional to class frequencies in the input data.

parameter

Penalty parameter  
Degree of polynomial kernel function  
Size of the kernel cache

**Explanation:**

### Code Segment

### Evaluation Statement

```
class_weight=balanced
```

Automatically select the performance metrics for the classification.
Automatically adjust weights directly proportional to class frequencies in the input data.
Automatically adjust weights inversely proportional to class frequencies in the input data.

C parameter

Penalty parameter
Degree of polynomial kernel function
Size of the kernel cache

Box 1: Automatically adjust weights inversely proportional to class frequencies in the input data. The "balanced" mode uses the values of `y` to automatically adjust weights inversely proportional to class frequencies in the input data as  $n_{\text{samples}} / (n_{\text{classes}} * \text{np.bincount}(y))$ .

Box 2: Penalty parameter

Parameter: C : float, optional (default=1.0)

Penalty parameter C of the error term.

References:

<https://scikit-learn.org/stable/modules/generated/sklearn.svm.SVC.html>

### NEW QUESTION # 80

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 have an Azure Machine Learning workspace that includes an AmlCompute cluster and a batch endpoint.

You clone a repository that contains an MLflow model to your local computer.

You need to ensure that you can deploy the model to the batch endpoint.

**Solution:** Register the model in the workspace.

Does the solution meet the goal?

- A. No
- B. Yes

**Answer: B**

Explanation:

Registering the MLflow model in the Azure Machine Learning workspace is a necessary step before deploying the model to a batch endpoint. The model must be registered so that it can be referenced during deployment. Once registered, you can create a batch deployment that uses the model along with the appropriate compute resources. Therefore, registering the model meets the goal of ensuring that the model can be deployed to the batch endpoint.

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