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Microsoft DP-100 exam is designed for data scientists who want to demonstrate their ability to design and implement data science solutions on Microsoft Azure. DP-100 exam is an important step towards earning the Microsoft Certified: Azure Data Scientist Associate certification. It covers a range of topics including data exploration, data preparation, modeling, and deployment. Passing DP-100 Exam requires a deep understanding of Azure services and tools, as well as strong data science skills.

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Microsoft Designing and Implementing a Data Science Solution on Azure Sample Questions (Q348-Q353):

NEW QUESTION # 348

You deploy a model as an Azure Machine Learning real-time web service using the following code.

```
# ws, model, inference_config, and deployment_config defined previously
service = Model.deploy(ws, 'classification-service', [model], inference_config, deployment_config)
service.wait_for_deployment(True)
```

The deployment fails.

You need to troubleshoot the deployment failure by determining the actions that were performed during deployment and identifying the specific action that failed.

Which code segment should you run?

- A. service.state
- B. service.update_deployment_state()
- C. service.serialize()

- D. `service.get_logs()`

Answer: D

Explanation:

You can print out detailed Docker engine log messages from the service object. You can view the log for ACI, AKS, and Local deployments. The following example demonstrates how to print the logs.

if you already have the service object handy

```
print(service.get_logs())
```

if you only know the name of the service (note there might be multiple services with the same name but different version number)

```
print(ws.webservices['mysvc'].get_logs())
```

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

NEW QUESTION # 349

Hotspot Question

You have a binary classifier that predicts positive cases of diabetes within two separate age groups.

The classifier exhibits a high degree of disparity between the age groups.

You need to modify the output of the classifier to maximize its degree of fairness across the age groups and meet the following requirements:

- Eliminate the need to retrain the model on which the classifier is based.

- Minimize the disparity between true positive rates and false positive rates across age groups.

Which algorithm and parity constraint should you use? To answer, select the appropriate options in the answer area.

NOTE: Each correct selection is worth one point.

Answer Area

Setting	Value
Algorithm	<div style="border: 1px solid gray; padding: 2px;"> <div style="background-color: #f0f0f0; padding: 2px; display: flex; justify-content: space-between; align-items: center;"> ▼ </div> <div style="padding: 2px;"> <p>Exponentiated gradient</p> <p>Grid search</p> <p>Threshold optimizer</p> </div> </div>
Parity constraint	<div style="border: 1px solid gray; padding: 2px;"> <div style="background-color: #f0f0f0; padding: 2px; display: flex; justify-content: space-between; align-items: center;"> ▼ </div> <div style="padding: 2px;"> <p>Bounded group loss</p> <p>Equalized odds</p> <p>Error rate parity</p> </div> </div>

Answer:

Explanation:

Answer Area



Setting	Value
Algorithm	<div style="border: 1px solid gray; padding: 2px;"> <div style="background-color: #f0f0f0; padding: 2px; display: flex; justify-content: space-between; align-items: center;"> ▼ </div> <div style="padding: 2px;"> <p>Exponentiated gradient</p> <p>Grid search</p> <p style="background-color: #d9ead3;">Threshold optimizer</p> </div> </div>
Parity constraint	<div style="border: 1px solid gray; padding: 2px;"> <div style="background-color: #f0f0f0; padding: 2px; display: flex; justify-content: space-between; align-items: center;"> ▼ </div> <div style="padding: 2px;"> <p>Bounded group loss</p> <p style="background-color: #d9ead3;">Equalized odds</p> <p>Error rate parity</p> </div> </div>

Explanation:

<https://learn.microsoft.com/en-us/azure/machine-learning/concept-fairness-ml?view=azureml-api-2>

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NEW QUESTION # 350

You register the following versions of a model.

Model name	Model version	Tags	Properties
healthcare_model	3	'Training context': CPU Compute'	value:87.43
healthcare_model	2	'Training context': CPU Compute'	value:54.98
healthcare_model	1	'Training context': CPU Compute'	value:23.56

You use the Azure ML Python SDK to run a training experiment. You use a variable named run to reference the experiment run. After the run has been submitted and completed, you run the following code:

```
run.register_model(model_path='outputs/model.pkl',
model_name='healthcare_model',
tags={'Training context': 'CPU Compute'})
```

For each of the following statements, select Yes if the statement is true. Otherwise, select No.
NOTE: Each correct selection is worth one point.

	Yes	No
The code will cause a previous version of the saved model to be overwritten.	<input type="radio"/>	<input type="radio"/>
The version number will now be 4.	<input type="radio"/>	<input type="radio"/>
The latest version of the stored model will have a property of value: 87.43.	<input type="radio"/>	<input type="radio"/>

Answer:

Explanation:

	Yes	No
The code will cause a previous version of the saved model to be overwritten.	<input type="radio"/>	<input checked="" type="radio"/>
The version number will now be 4.	<input checked="" type="radio"/>	<input type="radio"/>
The latest version of the stored model will have a property of value: 87.43.	<input type="radio"/>	<input checked="" type="radio"/>

Explanation:

	Yes	No
The code will cause a previous version of the saved model to be overwritten.	<input type="radio"/>	<input checked="" type="radio"/>
The version number will now be 4.	<input checked="" type="radio"/>	<input type="radio"/>
The latest version of the stored model will have a property of value: 87.43.	<input type="radio"/>	<input checked="" type="radio"/>

Reference:

<https://docs.microsoft.com/en-us/azure/machine-learning/how-to-deploy-and-where>

NEW QUESTION # 351

A set of CSV files contains sales records. All the CSV files have the same data schema. Each CSV file contains the sales record for a particular month and has the filename sales.csv. Each file is stored in a folder that indicates the month and year when the data was recorded. The folders are in an Azure blob container for which a datastore has been defined in an Azure Machine Learning workspace. The folders are organized in a parent folder named sales to create the following hierarchical structure:



At the end of each month, a new folder with that month's sales file is added to the sales folder.

You plan to use the sales data to train a machine learning model based on the following requirements:

You must define a dataset that loads all of the sales data to date into a structure that can be easily converted to a dataframe.

You must be able to create experiments that use only data that was created before a specific previous month, ignoring any data that was added after that month.

You must register the minimum number of datasets possible.

You need to register the sales data as a dataset in Azure Machine Learning service workspace.

What should you do?

- A. Create a tabular dataset that references the datastore and specifies the path 'sales/*/sales.csv', register the dataset with the name sales_dataset and a tag named month indicating the month and year it was registered, and use this dataset for all experiments.
- B. Create a new tabular dataset that references the datastore and explicitly specifies each 'sales/mm-yyyy/ sales.csv' file every month. Register the dataset with the name sales_dataset_MM-YYYY each month with appropriate MM and YYYY values for the month and year. Use the appropriate month-specific dataset for experiments.
- C. Create a tabular dataset that references the datastore and explicitly specifies each 'sales/mm-yyyy/ sales.csv' file every month. Register the dataset with the name sales_dataset each month, replacing the existing dataset and specifying a tag named indicating the month and year it was registered. Use this dataset for all experiments.
- D. Create a tabular dataset that references the datastore and explicitly specifies each 'sales/mm-yyyy/ sales.csv' file. Register the dataset with the name sales_dataset each month as a new version and with a tag named month indicating the month and year it was registered. Use this dataset for all experiments, identifying the version to be used based on the month tag as necessary.

Answer: A

Explanation:

Explanation

Specify the path.

Example:

The following code gets the workspace existing workspace and the desired datastore by name. And then passes the datastore and file locations to the path parameter to create a new TabularDataset, weather_ds.

```
from azureml.core import Workspace, Datastore, Dataset
datastore_name = 'your datastore name'
# get existing workspace
workspace = Workspace.from_config()
# retrieve an existing datastore in the workspace by name
datastore = Datastore.get(workspace, datastore_name)
# create a TabularDataset from 3 file paths in datastore
datastore_paths = [(datastore, 'weather/2018/11.csv'),
                   (datastore, 'weather/2018/12.csv'),
                   (datastore, 'weather/2019/*.*.csv')]
weather_ds = Dataset.Tabular.from_delimited_files(path=datastore_paths)
```

NEW QUESTION # 352

Drag and Drop Question

You provision an Azure Machine Learning workspace in a new Azure subscription.

You need to attach Azure Databricks as a compute resource from the Azure Machine Learning workspace.

Which four actions should you perform in sequence? To answer, move the appropriate actions from the list of actions to the answer

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