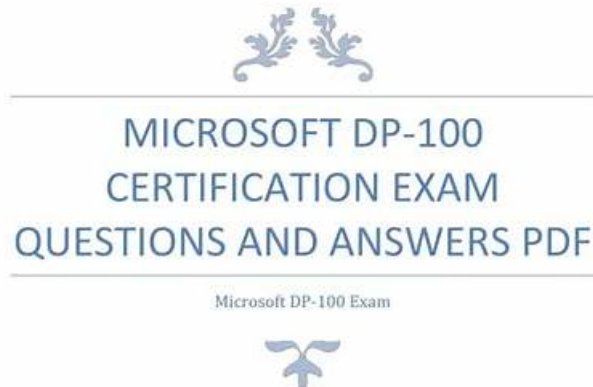


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Microsoft Designing and Implementing a Data Science Solution on Azure Sample Questions (Q197-Q202):

NEW QUESTION # 197

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

Reference:

<https://medium.com/microsoftazure/automated-and-interpretable-machine-learning-d07975741298>

NEW QUESTION # 198

You have an Azure Machine Learning workspace and a collection of image files stored in two Azure Blob Storage accounts. You need to configure data asset properties. Which values should you use in your configuration? To answer, select the appropriate options in the answer area.

NOTE: Each correct selection is worth one point.

Data asset configuration settings

Setting	Value
Data asset type	<div>uri_folder</div> <div>mltable</div> <div>uri_file</div> <div>uri_folder</div>
Scheme of the URL paths to storage locations	<div>wasbs</div> <div>abfss</div> <div>wasbs</div> <div>azureml</div>

Answer:

Explanation:

Data asset configuration settings

Setting	Value
Data asset type	<div>uri_folder</div> <div>mltable</div> <div>uri_file</div> <div>uri_folder</div>
Scheme of the URL paths to storage locations	<div>wasbs</div> <div>abfss</div> <div>wasbs</div> <div>azureml</div>

NEW QUESTION # 199

You plan to explore demographic data for home ownership in various cities. The data is in a CSV file with the following format:

age,city,income,home_owner

21,Chicago,50000,0

35,Seattle,120000,1

23,Seattle,65000,0

45,Seattle,130000,1

18,Chicago,48000,0

You need to run an experiment in your Azure Machine Learning workspace to explore the data and log the results. The experiment must log the following information:

the number of observations in the dataset

a box plot of income by home_owner

a dictionary containing the city names and the average income for each city You need to use the appropriate logging methods of the experiment's run object to log the required information.

How should you complete the code? To answer, drag the appropriate code segments to the correct locations. Each code segment 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.

Code segments	Answer Area
<div>log</div> <div>log_list</div> <div>log_row</div> <div>log_table</div> <div>log_image</div>	<pre> from azureml.core import Experiment, Run import pandas as pd import matplotlib.pyplot as plt # Create an Azure ML experiment in workspace experiment = Experiment(workspace = ws, name = "demo-experiment") # Start logging data from the experiment run = experiment.start_logging() # load the dataset data = pd.read_csv('research/demographics.csv') # Log the number of observations row_count = (len(data)) run.log("observations", row_count) # Log box plot for income by home_owner fig = plt.figure(figsize=(9, 6)) ax = fig.gca() data.boxplot(column = 'income', by = "home_owner", ax = ax) ax.set_title('income by home_owner') ax.set_ylabel('income') run.log("income_by_home_owner", plot = fig) # Create a dataframe of mean income per city mean_inc_df = data.groupby('city')['income'].agg(np.mean).to_frame().reset_index() # Convert to a dictionary mean_inc_dict = mean_inc_df.to_dict('dict') # Log city names and average income dictionary run.log("mean_income_by_city", value= mean_inc_dict) # Complete tracking and get link to details run.complete() </pre>

Answer:

Explanation:

NEW QUESTION # 200

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

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.get_logs()
- D. service.serialize()

Answer: C

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 # 201

You are performing feature scaling by using the scikit-learn Python library for x1, x2, and x3 features.

Original and scaled data is shown in the following image.

Use the drop-down menus to select the answer choice that answers each question based on the information presented in the graphic.

NOTE: Each correct selection is worth one point.

Answer:

Explanation:

□ Explanation:

Box 1: StandardScaler

The StandardScaler assumes your data is normally distributed within each feature and will scale them such that the distribution is now centred around 0, with a standard deviation of 1.

Example:

□ All features are now on the same scale relative to one another.

Box 2: Min Max Scaler

□ Notice that the skewness of the distribution is maintained but the 3 distributions are brought into the same scale so that they overlap.

Box 3: Normalizer

References:

<http://benalexkeen.com/feature-scaling-with-scikit-learn/>

NEW QUESTION # 202

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