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DP-100

Practice Test
15 Questions

Explained in Detail

You are developing a ML pipeline using Python SDK, and you have to separate your data model as well as for testing the trained model. You got a code snippet from your less experienced colleague which is a great help, if it works. You have to check if it does the job. By its description, the script loads data from the default datastore and separates the 70% for training and the rest of them for testing, by using the scikit-learn package. In a reprc:

```
# Get the experiment run context
run = Run.get_context()

# Load data
print("Loading Data...")
diabetes_data = run.input_datasets['diabetes_train'].to_pandas_dataframe()

# Separate features and labels
X, y = diabetes_data[['Pregnancies', 'PlasmaGlucose',
                     'DiastolicBloodPressure', 'BMI', 'Age']].values,
        diabetes['Diabetic'].values

# Split data into training set and test set
X_train, X_test, y_train, y_test =
    train_test_split(X, y, test_size=0.30, random_state=0)
```

☐ A. Yes
☐ B. No

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The DP-100 Certification is an essential certification for data professionals who want to develop their skills in designing and implementing data solutions using Microsoft Azure. Designing and Implementing a Data Science Solution on Azure certification demonstrates the candidate's proficiency in various aspects of data science, including data exploration, data preparation, data modeling, machine learning, and data visualization. Designing and Implementing a Data Science Solution on Azure certification is recognized globally and can help the candidate to gain better job opportunities and career growth.

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The candidates who want to take the Microsoft DP-100 Exam are expected to have competence in its objectives. This means that they need to understand the scope of topics covered in this certification test. They are as follows:

1. Azure ML Workspace Set-Up (30-35%):

- **Experiment compute contexts management:** The test takers must be able to create compute instances and compute targets for training and experiments. They have to know how to establish suitable compute specifications for training workloads.
- **Azure ML workspace creation:** This area focuses on the students' skills in creating Azure ML workspace, operating workspaces by using Azure ML studio, and configuring workspace settings.
- **Data objects management within Azure ML workspace:** The applicants should have competence in the creation and management of datasets, as well as maintenance and registration of datastores.

Microsoft Designing and Implementing a Data Science Solution on Azure Sample Questions (Q180-Q185):

NEW QUESTION # 180

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

You must create an automated machine learning job to generate a classification model by using data files stored in Parquet format.

You must configure an auto scaling compute target and a data asset for the job.

You need to configure the resources for the job.

Which resource configuration should you use? To answer, select the appropriate options in the answer area.

NOTE: Each correct selection is worth one point.

Answer:

Explanation:

Explanation:

NEW QUESTION # 181

You are building an experiment using the Azure Machine Learning designer.

You split a dataset into training and testing sets. You select the Two-Class Boosted Decision Tree as the algorithm.

You need to determine the Area Under the Curve (AUC) of the model.

Which three modules should you use in sequence? To answer, move the appropriate modules from the list of modules to the answer area and arrange them in the correct order.

Answer:

Explanation:

Explanation:

Step 1: Train Model

Two-Class Boosted Decision Tree

First, set up the boosted decision tree model.

1. Find the Two-Class Boosted Decision Tree module in the module palette and drag it onto the canvas.

2. Find the Train Model module, drag it onto the canvas, and then connect the output of the Two-Class Boosted Decision Tree module to the left input port of the Train Model module.

The Two-Class Boosted Decision Tree module initializes the generic model, and Train Model uses training data to train the model.

3. Connect the left output of the left Execute R Script module to the right input port of the Train Model module (in this tutorial you used the data coming from the left side of the Split Data module for training).

This portion of the experiment now looks something like this:

Step 2: Score Model

Score and evaluate the models

You use the testing data that was separated out by the Split Data module to score our trained models. You can then compare the results of the two models to see which generated better results.

Add the Score Model modules

1. Find the Score Model module and drag it onto the canvas.

2. Connect the Train Model module that's connected to the Two-Class Boosted Decision Tree module to the left input port of the Score Model module.

3. Connect the right Execute R Script module (our testing data) to the right input port of the Score Model module.

Step 3: Evaluate Model

To evaluate the two scoring results and compare them, you use an Evaluate Model module.

1. Find the Evaluate Model module and drag it onto the canvas.

2. Connect the output port of the Score Model module associated with the boosted decision tree model to the left input port of the Evaluate Model module.

3. Connect the other Score Model module to the right input port.

NEW QUESTION # 182

You have an Azure Machine Learning workspace

You plan to use the Azure Machine Learning SDK for Python v1 to submit a job to run a training script.

You need to complete the script to ensure that it will execute the training script.

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

NOTE: Each correct selection is worth one point.

Answer:

Explanation:

NEW QUESTION # 183

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

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

Solution: Run the following Python code:

Does the solution meet the goal?

- A. No
- B. Yes

Answer: A

NEW QUESTION # 184

You configure a Deep Learning Virtual Machine for Windows.

You need to recommend tools and frameworks to perform the following:

- * Build deep neural network (DNN) models
- * Perform interactive data exploration and visualization

Which tools and frameworks should you recommend? To answer, drag the appropriate tools to the correct tasks. Each tool 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.

Answer:

Explanation:

Explanation

Box 1: Vowpal Wabbit

Use the Train Vowpal Wabbit Version 8 module in Azure Machine Learning Studio (classic), to create a machine learning model by using Vowpal Wabbit.

Box 2: PowerBI Desktop

Power BI Desktop is a powerful visual data exploration and interactive reporting tool BI is a name given to a modern approach to business decision making in which users are empowered to find, explore, and share insights from data across the enterprise.

References:

<https://docs.microsoft.com/en-us/azure/machine-learning/studio-module-reference/train-vowpal-wabbit-version-8>

<https://docs.microsoft.com/en-us/azure/architecture/data-guide/scenarios/interactive-data-exploration>

NEW QUESTION # 185

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