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Skills measured

- Implement responsible machine learning (5–10%)
- Manage Azure resources for machine learning (25–30%)
- Deploy and operationalize machine learning solutions (35–40%)
- Run experiments and train models (20–25%)

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The Designing and Implementing a Data Science Solution on Azure (DP-100) practice test questions are customizable which means that the customers can customize the time and DP-100 exam questions types according to their needs. These Microsoft DP-100 Practice Tests are based on real based examination scenarios which help the students practice under real DP-100 exam questions pressure and learn to control it.

Microsoft Designing and Implementing a Data Science Solution on Azure Sample Questions (Q446-Q451):

NEW QUESTION # 446

You are analyzing a raw dataset that requires cleaning.

You must perform transformations and manipulations by using Azure Machine Learning Studio.

You need to identify the correct modules to perform the transformations.

Which modules should you choose? To answer, drag the appropriate modules to the correct scenarios. Each module 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: Clean Missing Data

Box 2: SMOTE

Use the SMOTE module in Azure Machine Learning Studio to increase the number of underrepresented cases in a dataset used for machine learning. SMOTE is a better way of increasing the number of rare cases than simply duplicating existing cases.

Box 3: Convert to Indicator Values

Use the Convert to Indicator Values module in Azure Machine Learning Studio. The purpose of this module is to convert columns that contain categorical values into a series of binary indicator columns that can more easily be used as features in a machine learning model.

Box 4: Remove Duplicate Rows

References:

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

<https://docs.microsoft.com/en-us/azure/machine-learning/studio-module-reference/convert-to-indicator-values>

NEW QUESTION # 447

You manage an Azure Machine Learning workspace.

You train a model interactively with a Jupyter Notebook in the workspace. During training, a dataset is created with accuracy and loss metrics for each epoch.

You need to configure model tracking with MLflow to log the dataset created during the training.

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

NOTE: Each correct selection is worth one point.

Answer:

Explanation:

Explanation:

NEW QUESTION # 448

You need to obtain the output from the pipeline execution. Where will you find the output?

- A. a file named `parallel_run_step.txt` located in the output folder
- B. the Inference Clusters tab in Machine Learning studio
- C. the debug log
- D. the `digitidentification.py` script
- E. the Activity Log in the Azure portal for the Machine Learning workspace

Answer: A

Explanation:

output_action (str): How the output is to be organized. Currently supported values are 'append_row' and 'summary_only'.

'append_row' - All values output by run() method invocations will be aggregated into one unique file named parallel_run_step.txt that is created in the output location.

'summary_only'

Reference:

<https://docs.microsoft.com/en-us/python/api/azureml-contrib-pipeline-steps/azureml.contrib.pipeline.steps.parallelrunconfig>

NEW QUESTION # 449

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 # 450

You need to replace the missing data in the AccessibilityToHighway columns.

How should you configure the Clean Missing Data module? To answer, select the appropriate options in the answer area.

NOTE: Each correct selection is worth one point.

Answer:

Explanation:

Explanation

Box 1: Replace using MICE

Replace using MICE: For each missing value, this option assigns a new value, which is calculated by using a method described in the statistical literature as "Multivariate Imputation using Chained Equations" or

"Multiple Imputation by Chained Equations". With a multiple imputation method, each variable with missing data is modeled conditionally using the other variables in the data before filling in the missing values.

Scenario: The AccessibilityToHighway column in both datasets contains missing values. The missing data must be replaced with new data so that it is modeled conditionally using the other variables in the data before filling in the missing values.

Box 2: Propagate

Cols with all missing values indicate if columns of all missing values should be preserved in the output.

References:

<https://docs.microsoft.com/en-us/azure/machine-learning/studio-module-reference/clean-missing-data>

NEW QUESTION # 451

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