

DP-100^{Q&As}

Designing and Implementing a Data Science Solution on Azure

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QUESTION 1

You create an Azure Machine Learning workspace.

You must configure an event handler to send an email notification when data drift is detected in the workspace datasets. You must minimize development efforts.

You need to configure an Azure service to send the notification.

Which Azure service should you use?

- A. Azure Function apps
- B. Azure DevOps pipeline
- C. Azure Automation runbook
- D. Azure Logic Apps

Correct Answer: D

QUESTION 2

You are making use of the Azure Machine Learning to design and construct an experiment.

After dividing a dataset into training and testing sets, you configure the algorithm to be Two-Class Boosted Decision Tree.

You are preparing to ascertain the Area Under the Curve (AUC).

Which of the following is a sequential combination of the models required to achieve your goal?

- A. Train, Score, Evaluate.
- B. Score, Evaluate, Train.
- C. Evaluate, Export Data, Train.
- D. Train, Score, Export Data.

Correct Answer: A

QUESTION 3

You need to visually identify whether outliers exist in the Age column and quantify the outliers before the outliers are removed. Which three Azure Machine Learning Studio modules should you use? Each correct answer presents part of the solution. NOTE: Each correct selection is worth one point.

- A. Create Scatterplot

- B. Summarize Data
- C. Clip Values
- D. Replace Discrete Values
- E. Build Counting Transform

Correct Answer: ABC

B: To have a global view, the summarize data module can be used. Add the module and connect it to the data set that needs to be visualized.

A: One way to quickly identify Outliers visually is to create scatter plots.

C: The easiest way to treat the outliers in Azure ML is to use the Clip Values module. It can identify and optionally replace data values that are above or below a specified threshold.

You can use the Clip Values module in Azure Machine Learning Studio, to identify and optionally replace data values that are above or below a specified threshold. This is useful when you want to remove outliers or replace them with a mean, a constant, or other substitute value.

References: <https://blogs.msdn.microsoft.com/azuredev/2017/05/27/data-cleansing-tools-in-azure-machine-learning/>

<https://docs.microsoft.com/en-us/azure/machine-learning/studio-module-reference/clip-values> Question Set 3

QUESTION 4

You are planning to make use of Azure Machine Learning designer to train models.

You need choose a suitable compute type.

Recommendation: You choose Attached compute.

Will the requirements be satisfied?

- A. Yes
- B. No

Correct Answer: B

Reference: <https://docs.microsoft.com/en-us/azure/machine-learning/how-to-create-attach-compute-studio>

QUESTION 5

You are planning to host practical training to acquaint learners with data visualization creation using Python. Learner devices are able to connect to the internet.

Learner devices are currently NOT configured for Python development. Also, learners are unable to install software on their devices as they lack administrator permissions. Furthermore, they are unable to access Azure subscriptions.

It is imperative that learners are able to execute Python-based data visualization code.

Which of the following actions should you take?

- A. You should consider configuring the use of Azure Container Instance.
- B. You should consider configuring the use of Azure BatchAI.
- C. You should consider configuring the use of Azure Notebooks.
- D. You should consider configuring the use of Azure Kubernetes Service.

Correct Answer: C

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

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