



DP-100^{Q&As}

Designing and Implementing a Data Science Solution on Azure

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**QUESTION 1**

You have a comma-separated values (CSV) file containing data from which you want to train a classification model.

You are using the Automated Machine Learning interface in Azure Machine Learning studio to train the classification model. You set the task type to Classification.

You need to ensure that the Automated Machine Learning process evaluates only linear models.

What should you do?

- A. Add all algorithms other than linear ones to the blocked algorithms list.
- B. Set the Exit criterion option to a metric score threshold.
- C. Clear the option to perform automatic featurization.
- D. Clear the option to enable deep learning.
- E. Set the task type to Regression.

Correct Answer: C

Automatic featurization can fit non-linear models.

Reference: <https://econml.azurewebsites.net/spec/estimation/dml.html> <https://docs.microsoft.com/en-us/azure/machine-learning/how-to-use-automated-ml-for-ml-models>

QUESTION 2

Note: This question is part of a series of questions that present the same scenario. Each question in the series contains a unique solution that might meet the stated goals. Some question sets might have more than one correct solution, while

others might not have a correct solution.

After you answer a question in this section, you will NOT be able to return to it. As a result, these questions will not appear in the review screen.

An IT department creates the following Azure resource groups and resources:



Resource group	Resources
ml_resources	<ul style="list-style-type: none">• an Azure Machine Learning workspace named amlworkspace• an Azure Storage account named amlworkspace12345• an Application Insights instance named amlworkspace54321• an Azure Key Vault named amlworkspace67890• an Azure Container Registry named amlworkspace09876
general_compute	A virtual machine named mlvm with the following configuration: <ul style="list-style-type: none">• Operating system: Ubuntu Linux• Software installed: Python 3.6 and Jupyter Notebooks• Size: NC6 (6 vCPUs, 1 vGPU, 56 Gb RAM)

The IT department creates an Azure Kubernetes Service (AKS)-based inference compute target named aks-cluster in the Azure Machine Learning workspace.

You have a Microsoft Surface Book computer with a GPU. Python 3.6 and Visual Studio Code are installed.

You need to run a script that trains a deep neural network (DNN) model and logs the loss and accuracy metrics.

Solution: Install the Azure ML SDK on the Surface Book. Run Python code to connect to the workspace and then run the training script as an experiment on local compute.

Does the solution meet the goal?

A. Yes

B. No

Correct Answer: B

Need to attach the mlvm virtual machine as a compute target in the Azure Machine Learning workspace.

Reference: <https://docs.microsoft.com/en-us/azure/machine-learning/concept-compute-target>

QUESTION 3

You need to implement a scaling strategy for the local penalty detection data.

Which normalization type should you use?

A. Streaming

B. Weight

C. Batch

D. Cosine

Correct Answer: C

Post batch normalization statistics (PBN) is the Microsoft Cognitive Toolkit (CNTK) version of how to evaluate the population mean and variance of Batch Normalization which could be used in inference Original Paper. In CNTK, custom



networks are defined using the BrainScriptNetworkBuilder and described in the CNTK network description language "BrainScript."

Scenario:

Local penalty detection models must be written by using BrainScript.

References:

<https://docs.microsoft.com/en-us/cognitive-toolkit/post-batch-normalization-statistics>

QUESTION 4

Note: This question is part of a series of questions that present the same scenario. Each question in the series contains a unique solution that might meet the stated goals. Some question sets might have more than one correct solution, while

others might not have a correct solution.

After you answer a question in this section, you will NOT be able to return to it. As a result, these questions will not appear in the review screen.

You are analyzing a numerical dataset which contains missing values in several columns.

You must clean the missing values using an appropriate operation without affecting the dimensionality of the feature set.

You need to analyze a full dataset to include all values.

Solution: Use the Last Observation Carried Forward (LOCF) method to impute the missing data points.

Does the solution meet the goal?

A. Yes

B. No

Correct Answer: B

Instead use the Multiple Imputation by Chained Equations (MICE) method. 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.

Note: Last observation carried forward (LOCF) is a method of imputing missing data in longitudinal studies. If a person drops out of a study before it ends, then his or her last observed score on the dependent variable is used for all subsequent (i.e., missing) observation points. LOCF is used to maintain the sample size and to reduce the bias caused by the attrition of participants in a study.

References: <https://methods.sagepub.com/reference/encyc-of-research-design/n211.xml>

<https://www.ncbi.nlm.nih.gov/pmc/articles/PMC3074241/>



QUESTION 5

You create an Azure Machine Learning workspace.

You must create a custom role named DataScientist that meets the following requirements:

1.

Role members must not be able to delete the workspace.

2.

Role members must not be able to create, update, or delete compute resource in the workspace.

3.

Role members must not be able to add new users to the workspace.

You need to create a JSON file for the DataScientist role in the Azure Machine Learning workspace.

The custom role must enforce the restrictions specified by the IT Operations team.

Which JSON code segment should you use?



```
A. {
  "Name": "DataScientist",
  "IsCustom": true,
  "Description": "Project Data Scientist role",
  "Actions": ["*"],
  "NotActions": [
    "Microsoft.MachineLearningServices/workspaces/*/delete",
    "Microsoft.MachineLearningServices/workspaces/computes/*/write",
    "Microsoft.MachineLearningServices/workspaces/computes/*/delete",
    "Microsoft.Authorization/*/write"
  ],
  "AssignableScopes": [
    "/subscriptions/<id>/resourceGroups/ml-rg/providers/Microsoft.MachineLearningServices/workspaces/ml-ws"
  ]
}

B. {
  "Name": "DataScientist",
  "IsCustom": true,
  "Description": "Project Data Scientist role",
  "Actions": ["*"],
  "NotActions": [],
  "AssignableScopes": [
    "/subscriptions/<id>/resourceGroups/ml-rg/providers/Microsoft.MachineLearningServices/workspaces/ml-ws"
  ]
}

C. {
  "Name": "DataScientist",
  "IsCustom": true,
  "Description": "Project Data Scientist role",
  "Actions": ["Microsoft.MachineLearningServices/workspaces/*/delete",
    "Microsoft.MachineLearningServices/workspaces/computes/*/write",
    "Microsoft.MachineLearningServices/workspaces/computes/*/delete",
    "Microsoft.Authorization/*/write"
  ],
  "NotActions": [],
  "AssignableScopes": [
    "/subscriptions/<id>/resourceGroups/ml-rg/providers/Microsoft.MachineLearningServices/workspaces/ml-ws"
  ]
}

D. {
  "Name": "DataScientist",
  "IsCustom": true,
  "Description": "Project Data Scientist role",
  "Actions": [],
  "NotActions": ["*"],
  "AssignableScopes": [
    "/subscriptions/<id>/resourceGroups/ml-rg/providers/Microsoft.MachineLearningServices/workspaces/ml-ws"
  ]
}
```

A. Option A

B. Option B

C. Option C

D. Option D

Correct Answer: A

The following custom role can do everything in the workspace except for the following actions:

1.



It can't create or update a compute resource.

2.

It can't delete a compute resource.

3.

It can't add, delete, or alter role assignments.

4.

It can't delete the workspace.

To create a custom role, first construct a role definition JSON file that specifies the permission and scope for the role. The following example defines a custom role named "Data Scientist Custom" scoped at a specific workspace level:

data_scientist_custom_role.json :

```
{
  "Name": "Data Scientist Custom",
  "IsCustom": true,
  "Description": "Can run experiment but can't create or delete compute.", "Actions": ["*"],
  "NotActions": [
    "Microsoft.MachineLearningServices/workspaces/*/delete", "Microsoft.MachineLearningServices/workspaces/write",
    "Microsoft.MachineLearningServices/workspaces/computes/*/write",
    "Microsoft.MachineLearningServices/workspaces/computes/*/delete", "Microsoft.Authorization/*/write"
  ],
  "AssignableScopes": [
    "/subscriptions//resourceGroups//providers/ Microsoft.MachineLearningServices/workspaces/" ]
}
```

Reference:

<https://docs.microsoft.com/en-us/azure/machine-learning/how-to-assign-roles>

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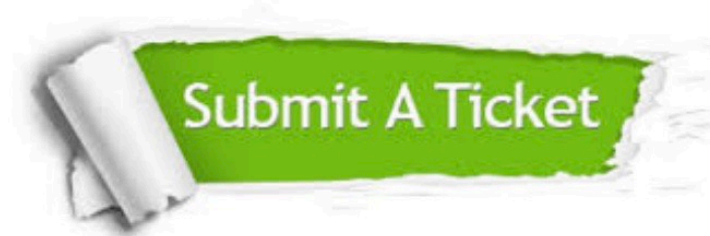
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