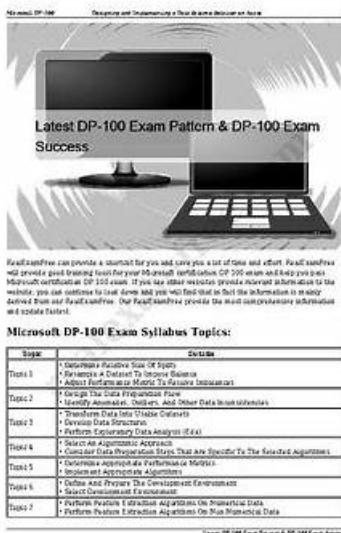


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## Microsoft DP-100 Practice Test Questions, Microsoft DP-100 Exam Practice Test Questions

The Microsoft DP-100: Designing & Implementing a Data Science Solution on Azure exam evaluates the skills and knowledge of the professionals in a range of technical tasks. These include training models and running experiments, setting up an Azure ML workspace, consuming and deploying models, and managing & optimizing models. This test is the only qualifying exam that leads to the Microsoft Certified: Azure Data Scientist Associate certification.

## Microsoft Designing and Implementing a Data Science Solution on Azure Sample Questions (Q157-Q162):

### NEW QUESTION # 157

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.



### 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	<div style="border: 1px solid black; padding: 5px; display: inline-block;">         Tabular          HAN          Text          Image       </div>
A natural language processing model for analyzing field reports	<div style="border: 1px solid black; padding: 5px; display: inline-block;">         Tree   Microsoft          HAN          Text          Image       </div>
An image classifier that determines the quality of a grape based upon its physical characteristics.	<div style="border: 1px solid black; padding: 5px; display: inline-block;">         Kernel          HAN          Text          Image       </div>
Explanation	<div style="display: flex; justify-content: space-between;"> <span>Model type</span> <span>Explainer</span> </div> <div style="border: 1px solid black; padding: 5px; display: inline-block;">  Microsoft       </div> <div style="border: 1px solid black; padding: 5px; display: inline-block;">         Tabular          HAN          Text          Image       </div> <div style="border: 1px solid black; padding: 5px; display: inline-block;">         Tree          HAN          Text          Image       </div> <div style="border: 1px solid black; padding: 5px; display: inline-block;">         Kernel          HAN          Text          Image       </div>

Meta explainers automatically select a suitable direct explainer and generate the best explanation info based on the given model and data sets. The meta explainers leverage all the libraries (SHAP, LIME, Mimic, etc.) that we have integrated or developed. The following are the meta explainers available in the SDK:

Tabular Explainer: Used with tabular datasets.

Text Explainer: Used with text datasets.

Image Explainer: Used with image datasets.

Box 1: Tabular

Box 2: Text

Box 3: Image

Reference:

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

## NEW QUESTION # 158

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 a data scientist using Azure Machine Learning Studio.

You need to normalize values to produce an output column into bins to predict a target column.

Solution: Apply an Equal Width with Custom Start and Stop binning mode.

Does the solution meet the goal?

- A. No
- B. Yes

**Answer: A**

Explanation:

Explanation/Reference:

Explanation:

Use the Entropy MDL binning mode which has a target column.

References:

<https://docs.microsoft.com/en-us/azure/machine-learning/studio-module-reference/group-data-into-bins>

#### NEW QUESTION # 159

You create an Azure Machine Learning compute target named ComputeOne by using the STANDARD\_D1 virtual machine image.

You define a Python variable named ws that references the Azure Machine Learning workspace. You run the following Python code:

```
from azureml.core.compute import ComputeTarget, AmlCompute
from azureml.core.compute_target import ComputeTargetException
the_cluster_name = "ComputeOne"
try:
    the_cluster = ComputeTarget(workspace=ws, name=the_cluster_name)
    print('Step1')
except ComputeTargetException:
    config = AmlCompute.provisioning_configuration(vm_size='STANDARD_DS12_v2', max_nodes=4)
    the_cluster = ComputeTarget.create(ws, the_cluster_name, config)
    print('Step2')
```

For each of the following statements, select Yes if the statement is true. Otherwise, select No.

NOTE: Each correct selection is worth one point.

	Yes	No
A new machine learning compute resource is created with a virtual machine size of STANDARD_DS12_v2 and a maximum of four nodes.	<input type="radio"/>	<input type="radio"/>
Any experiments configured to use the_cluster will run on ComputeOne.	<input type="radio"/>	<input type="radio"/>
The text <b>Step1</b> will be printed to the screen.	<input type="radio"/>	<input type="radio"/>

**Answer:**

Explanation:

A new machine learning compute resource is created with a virtual machine size of STANDARD\_DS12\_v2 and a maximum of four nodes.

**Yes**  **No**

Any experiments configured to use the\_cluster will run on ComputeOne.

**Yes**  **No**

The text **Step1** will be printed to the screen.

**Yes**  **No**

Reference:

<https://docs.microsoft.com/en-us/python/api/azureml-core/azureml.core.compute.computetarget>

#### NEW QUESTION # 160

You create an Azure Machine Learning workspace.

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

Role members must not be able to delete the workspace.

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

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": [],  
  "AssignableScopes": [  
    "/subscriptions/<id>/resourceGroups/ml-rg/providers/Microsoft.MachineLearningServices/workspaces/ml-ws"  
  ]  
}
```

- B.

```
[  
  {  
    "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"  
    ]  
  },  
  {  
    "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"  
    ]  
  }  
]
```

- C.

- D.

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

## Answer: B

Explanation:

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

It can't create or update a compute resource.

It can't delete a compute resource.

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

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/<subscription_id>/resourceGroups/<resource_group_name>/providers/Microsoft.
MachineLearningServices/workspaces/<workspace_name>"
]
}
}

```

Reference:

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

### NEW QUESTION # 161

You have machine learning models produce unfair predictions across sensitive features.

You must use a post-processing technique to apply a constraint to the models to mitigate their unfairness.

You need to select a post-processing technique and model type.

What should you use? To answer, select the appropriate options in the answer area.

NOTE: Each correct selection is worth one point.

Answer Area
Microsoft

Setting	Value
Technique	<div style="display: flex; align-items: center; gap: 10px;"> <span style="font-weight: bold;">▼</span> </div> <div style="border: 1px solid #ccc; padding: 5px; width: fit-content; background-color: #f0f0f0;"> Grid Search  Exponential Gradient  Threshold Optimizer </div>
Model type	<div style="display: flex; align-items: center; gap: 10px;"> <span style="font-weight: bold;">▼</span> </div> <div style="border: 1px solid #ccc; padding: 5px; width: fit-content; background-color: #f0f0f0;"> Regression  Time Series  Binary classification </div>

**Answer:**

Explanation:

## Answer Area

Setting	Value
Microsoft Technique	Grid Search Exponential Gradient Threshold Optimizer
Model type	Regression Time Series Binary classification

Explanation:

### Answer Area

Setting	Value
Technique	Grid Search Exponential Gradient Threshold Optimizer
Model type	Regression Time Series Binary classification

## NEW QUESTION # 162

.....

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