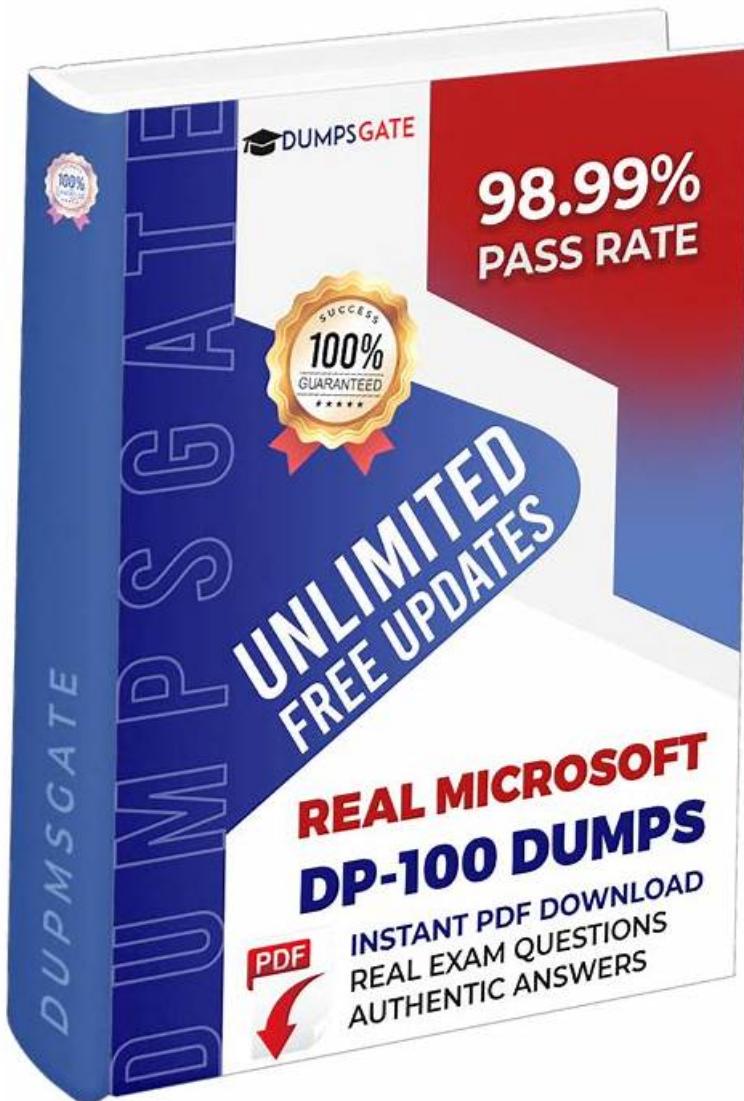


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To prepare for the Microsoft DP-100 Certification Exam, candidates should have a solid understanding of data science concepts and experience working with Azure tools and services. Microsoft offers a range of resources to help candidates prepare for the exam, including online training courses, practice exams, and study guides. Candidates can also find a wealth of information and resources online, including blogs, forums, and tutorials.

Microsoft Designing and Implementing a Data Science Solution on Azure Sample Questions (Q139-Q144):

NEW QUESTION # 139

You plan to use Hyperdrive to optimize the hyperparameters selected when training a model. You create the following code to define options for the hyperparameter experiment

```
import azureml.train.hyperdrive.parameter_expressions as pe
from azureml.train.hyperdrive import GridParameterSampling, HyperDriveConfig

param_sampling = GridParameterSampling({
    "max_depth": pe.choice(6, 7, 8, 9),
    "learning_rate": pe.choice(0.05, 0.1, 0.15)
})
hyperdrive_run_config = HyperDriveConfig(
    estimator = estimator,
    hyperparameter_sampling = param_sampling,
    policy = None,
    primary_metric_name = "auc",
    primary_metric_goal = PrimaryMetricGoal.MAXIMIZE,
    max_total_runs = 50,
    max_concurrent_runs = 4)
```

For each of the following statements, select Yes if the statement is true. Otherwise, select No. NOTE: Each correct selection is worth one point.

Answer Area

There will be 50 runs for this hyperparameter tuning experiment.

Yes No

You can use the policy parameter in the HyperDriveConfig class to specify a security policy.

Yes No

The experiment will create a run for every possible value for the learning rate parameter between 0.05 and 0.15.

Yes No

Answer:

Explanation:

Answer Area**Microsoft**

There will be 50 runs for this hyperparameter tuning experiment.

You can use the policy parameter in the HyperDriveConfig class to specify a security policy.

The experiment will create a run for every possible value for the learning rate parameter between 0.05 and 0.15.

Yes	No
<input checked="" type="radio"/>	<input type="radio"/>
<input type="radio"/>	<input checked="" type="radio"/>
<input type="radio"/>	<input checked="" type="radio"/>

NEW QUESTION # 140

You need to build a feature extraction strategy for the local models.

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 Area

```
with C.layers.default_options(init=C.glorot_uniform(), activation=C.relu):
    h = features
```

h = C.layers.Convolution2D(num_filters=8, ...)(h)
 h = C.layers.MaxPooling(filter_shape=(3, 3), ...)(h)
 h = C.layers.Convolution2D(num_filters=16, ...)(h)
 h = C.layers.MaxPooling(filter_shape=(2, 2), ...)(h)

h = C.layers.MaxPooling(filter_shape=(3, 3), ...)(h)
 h = C.layers.MaxPooling(filter_shape=(2, 2), ...)(h)
 h = C.layers.Convolution2D(num_filters=8, ...)(h)
 h = C.layers.Convolution2D(num_filters=16, ...)(h)

h = C.layers.Convolution2D(num_filters=16, ...)(h)
 h = C.layers.Convolution2D(num_filters=8, ...)(h)
 h = C.layers.MaxPooling(filter_shape=(2, 2), ...)(h)
 h = C.layers.MaxPooling(filter_shape=(3, 3), ...)(h)

h = C.layers.MaxPooling(filter_shape=(3, 3), ...)(h)
 h = C.layers.MaxPooling(filter_shape=(2, 2), ...)(h)
 h = C.layers.Convolution2D(num_filters=8, ...)(h)
 h = C.layers.Convolution2D(num_filters=16, ...)(h)

Answer:

Explanation:

Answer Area**Methods** Clean Missing Data SMOTE Convert to Indicator Values Remove Duplicate Rows Threshold Filter**Scenario**

Replace missing values by removing rows and columns.

Increase the number of low-incidence examples in the dataset.

Convert a categorical feature into a binary indicator.

Remove potential duplicates from a dataset.

Module Clean Missing Data SMOTE Convert to Indicator Values Remove Duplicate Rows

Explanation



Microsoft

Answer Area

```
with C.layers.default_options(init=C.glorot_uniform(), activation=C.relu):
    h = features
    h = C.layers.MaxPooling(filter_shape=(3,3,...))(h)
    h = C.layers.MaxPooling(filter_shape=(2,2,...))(h)
    h = C.layers.Convolution2D(num_filters=16...)(h)
    h = C.layers.MaxPooling(filter_shape=(2,2,...))(h)
    r = C.layers.Dense...
```

NEW QUESTION # 141

You are a data scientist building a deep convolutional neural network (CNN) for image classification.

The CNN model you built shows signs of overfitting.

You need to reduce overfitting and converge the model to an optimal fit.

Which two actions should you perform? Each correct answer presents a complete solution.

NOTE: Each correct selection is worth one point.

- A. Use training data augmentation
- B. Add an additional dense layer with 64 input units
- C. Reduce the amount of training data.
- D. Add L1/L2 regularization.
- E. Add an additional dense layer with 512 input units.

Answer: C,D

Explanation:

References:

<https://machinelearningmastery.com/how-to-reduce-overfitting-in-deep-learning-with-weight-regularization/>

https://en.wikipedia.org/wiki/Convolutional_neural_network

NEW QUESTION # 142

You have a dataset that includes home sales data for a city. The dataset includes the following columns.



Microsoft

Name	Description
Price	The sales price for the house.
Bedrooms	The number of bedrooms in the house.
Size	The size of the house in square feet.
HasGarage	A binary value indicating whether or not the house has a garage.
HomeType	The category of home, for example, apartment, townhouse, single-family home.

Each row in the dataset corresponds to an individual home sales transaction.

You need to use automated machine learning to generate the best model for predicting the sales price based on the features of the house.

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

NOTE: Each correct selection is worth one point.

Setting	Value
Prediction task	Classification Forecasting Regression Outlier
Target column	Price Bedrooms Size HasGarage HomeType

Answer:

Explanation:

Setting	Value
Prediction task	Classification Forecasting Regression Outlier
Target column	Price Bedrooms Size HasGarage Microsoft HomeType

Reference:

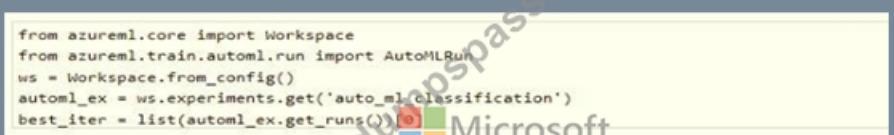
<https://docs.microsoft.com/en-us/learn/modules/create-regression-model-azure-machine-learning-designer>

NEW QUESTION # 143

You run an automated machine learning experiment in an Azure Machine Learning workspace. Information about the run is listed in the table below:

Experiment	Run ID	Status	Created on	Duration
auto_ml_classification	AutoML_1234567890-123	Completed	11/11/2019 11:00:00 AM	00:27:11

You need to write a script that uses the Azure Machine Learning SDK to retrieve the best iteration of the experiment run. Which Python code segment should you use?

- A. 

```
from azureml.core import Workspace
from azureml.train.automl.run import AutoMLRun
ws = Workspace.from_config()
automl_ex = ws.experiments.get('auto_ml_classification')
best_iter = list(automl_ex.get_runs())[0]
```
- B. 

```
from azureml.core import workspace
```
- C. 

```
from azureml.core import workspace
from azureml.train.automl.run import AutoMLRun
ws = Workspace.from_config()
automl_ex = ws.experiments.get('auto_ml_classification')
best_iter = list(automl_ex.get_runs())[0]
```

```

from azureml.core import Workspace
from azureml.train.automl.run import AutoMLRun
ws = Workspace.from_config()
automl_ex = ws.experiments.get('auto_ml_classification')
best_iter = list(automl_ex.get_runs())[0]

```



- D.

```

from azureml.core import Workspace
from azureml.train.automl.run import AutoMLRun
ws = Workspace.from_config()
automl_ex = ws.experiments.get('auto_ml_classification')
automl_run = AutoMLRun(automl_ex, 'AutoML_1234567890-123')
best_iter = automl_run.get_output()[0]

```



Answer: D

Explanation:

The `get_output` method on `automl_classifier` returns the best run and the fitted model for the last invocation.

Overloads on `get_output` allow you to retrieve the best run and fitted model for any logged metric or for a particular iteration.

In []:

```
best_run, fitted_model = local_run.get_output()
```

Reference:

<https://notebooks.azure.com/azureml/projects/azureml-getting-started/html/how-to-use-azureml/automated-mach>

NEW QUESTION # 144

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