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Under the hatchet of fast-paced development, we must always be cognizant of social long term goals and the direction of the development of science and technology. Adapt to the network society, otherwise, we will take the risk of being obsoleted. Our Designing and Implementing a Data Science Solution on Azure qualification test help improve your technical skills and more importantly, helping you build up confidence to fight for a bright future in tough working environment. Our professional experts devote plenty of time and energy to developing the DP-100 Study Tool. You can trust us and let us be your honest cooperater in your future development. Here are several advantages about our Designing and Implementing a Data Science Solution on Azure exam for your reference. We sincere suggest you to spare some time to have a glance over the following items.

Candidates for the DP-100 Certification Exam should have experience with Azure services and tools, as well as a strong understanding of data science concepts and methodologies. It is recommended that you have at least one year of experience working with data science projects before attempting DP-100 exam. With the DP-100 certification, you can demonstrate your expertise to potential employers and advance your career in the field of data science.

2. Train Models & Run Experiments (25-30%):

- **Metrics generation from experiment runs:** The candidates must be able to use logs for troubleshooting errors in experiment runs, log metrics from experiment run, and view and retrieve experiment outputs.

- **Models creation with Azure ML Designer:** This domain covers the examinees' skills in using custom code modules within the design and using designer modules for the definition of pipeline data flows. It also requires one's competence in ingesting data within designer pipelines and creating training pipelines utilizing ML Designer.
- **Model training process automation:** The individuals need the relevant skills in running pipelines, passing data within steps in pipelines, monitoring pipeline runs, and creating pipelines with the use of SDK.
- **Training scripts run within Azure ML workspaces:** The students should have the expertise in creating and running experiments utilizing Azure ML SDK as well configuring run settings for the scripts. This subject area also requires their skills in data consumption from datasets for an experiment using Azure ML SDK.

>> Latest Braindumps DP-100 Book <<

Microsoft DP-100 Online Lab Simulation | DP-100 Latest Test Question

On the one hand, our company hired the top experts in each qualification examination field to write the DP-100 prepare dump, so as to ensure that our products have a very high quality, so that users can rest assured that the use of our research materials. On the other hand, under the guidance of high quality research materials, the rate of adoption of the DP-100 Exam Guide is up to 98% to 100%. Of course, it is necessary to qualify for a qualifying exam, but more importantly, you will have more opportunities to get promoted in the workplace.

Microsoft Designing and Implementing a Data Science Solution on Azure Sample Questions (Q194-Q199):

NEW QUESTION # 194

You are using a decision tree algorithm. You have trained a model that generalizes well at a tree depth equal to 10.

You need to select the bias and variance properties of the model with varying tree depth values.

Which properties should you select for each tree depth? To answer, select the appropriate options in the answer area.

Tree Depth	Bias	Variance
5	▼ High Low Identical	▼ High Low Identical
15	▼ High Low Identical	▼ High Low Identical

Answer:

Explanation:

Tree Depth	Bias	Variance
5	▼ High Low Identical	▼ High Low Identical
15	▼ High Low Identical	▼ High Low Identical

Explanation:

In decision trees, the depth of the tree determines the variance. A complicated decision tree (e.g. deep) has low bias and high

variance.

Note: In statistics and machine learning, the bias-variance tradeoff is the property of a set of predictive models whereby models with a lower bias in parameter estimation have a higher variance of the parameter estimates across samples, and vice versa. Increasing the bias will decrease the variance. Increasing the variance will decrease the bias.

References:

<https://machinelearningmastery.com/gentle-introduction-to-the-bias-variance-trade-off-in-machine-learning/>

NEW QUESTION # 195

You are developing a deep learning model by using TensorFlow. You plan to run the model training workload on an Azure Machine Learning Compute Instance.

You must use CUDA-based model training.

You need to provision the Compute Instance.

Which two virtual machines sizes can you use? To answer, select the appropriate virtual machine sizes in the answer area.

NOTE: Each correct selection is worth one point.

Virtual machine size

Name ↑	vCPUs	GPUs	RAM	Resource disk
BASIC_A0	1		0.75 GB	20 GB
STANDARD_D3_V2	4		14 GB	200 GB
STANDARD_E64_V3	64		432 GB	1,600 GB
STANDARD_M64LS	64		512 GB	2,000 GB
STANDARD_NC12	12	2	112 GB	680 GB
STANDARD_NC24	24	4	224 GB	1,440 GB

Answer:

Explanation:

Virtual machine size

Name ↑	vCPUs	GPUs	RAM	Resource disk
BASIC_A0	1		0.75 GB	20 GB
STANDARD_D3_V2	4		14 GB	200 GB
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Explanation

Virtual machine size				
				
Search by name...				
Name ↑	vCPUs	GPUs	RAM	Resource disk
BASIC_A0	1		0.75 GB	20 GB
STANDARD_D3_V2	4		14 GB	200 GB
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STANDARD_NC24	24	4	224 GB	1,440 GB

CUDA is a parallel computing platform and programming model developed by Nvidia for general computing on its own GPUs (graphics processing units). CUDA enables developers to speed up compute-intensive applications by harnessing the power of GPUs for the parallelizable part of the computation.

Reference:

<https://www.infoworld.com/article/3299703/what-is-cuda-parallel-programming-for-gpus.html>

NEW QUESTION # 196

A coworker registers a datastore in a Machine Learning services workspace by using the following code:

```
Datastore.register_azure_blob_container(workspace=ws,
datastore_name='demo_datastore',
container_name='demo_datacontainer',
account_name='demo_account',
account_key='0A0A0A-0A0A0A-0A0A0A0A0A0A',
create_if_not_exists=True)
```

You need to write code to access the datastore from a notebook.

Answer Area

```
import azureml.core
from azureml.core import Workspace, Datastore
ws = Workspace.from_config()

datastore = Workspace.get('ws', 'demo_datastore',
                        Datastore, 'demo_datacontainer',
                        Experiment, 'demo_account',
                        Run, 'Datastore')
```

Answer:

Explanation:

Answer Area

```
import azureml.core
from azureml.core import Workspace, Datastore
ws = Workspace.from_config()

datastore = Datastore.get(ws, 'demo_datastore',
                        Datastore, 'demo_datacontainer',
                        Experiment, 'demo_account',
                        Run, 'Datastore')
```

Explanation:

Box 1: DataStore

To get a specific datastore registered in the current workspace, use the get() static method on the Datastore class:

Get a named datastore from the current workspace

datastore = Datastore.get(ws, datastore_name='your datastore name')

Box 2: ws

Box 3: demo_datastore

Reference:

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

NEW QUESTION # 197

You are running a training experiment on remote compute in Azure Machine Learning.

The experiment is configured to use a conda environment that includes the mlflow and azureml-contrib-run packages.

You must use MLflow as the logging package for tracking metrics generated in the experiment.

You need to complete the script for the experiment.

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

NOTE: Each correct selection is worth one point.

```
import numpy as np
# Import library to log metrics

# Start logging for this run

reg_rate = 0.01
# Log the reg_rate metric

# Stop logging for this run
```

from azureml.core import Run
import mlflow
import logging

run = Run.get_context()
mlflow.start_run()
logger = logging.getLogger('Run')
reg_rate = 0.01
Log the reg_rate metric

run.log('reg_rate', np.float(reg_rate))
mlflow.log_metric('reg_rate', np.float(reg_rate))
logger.info(np.float(reg_rate))

run.complete()
mlflow.end_run()
logger.setLevel(logging.INFO)

Answer:

Explanation:

```
import numpy as np
# Import library to log metrics
```

```
from azureml.core import Run
```

```
import mlflow
```

```
import logging
```

```
# Start logging for this run
```

```
run = Run.get_context()
```

```
mlflow.start_run()
```

```
logger = logging.getLogger('Run')
```

```
reg_rate = 0.01
```

```
# Log the reg_rate metric
```

```
run.log('reg_rate', np.float(reg_rate))
```

```
mlflow.log_metric('reg_rate', np.float(reg_rate))
```

```
logger.info(np.float(reg_rate))
```

```
# Stop logging for this run
```

```
run.complete()
```

```
mlflow.end_run()
```

```
logger.setLevel(logging.INFO)
```

Reference:

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

NEW QUESTION # 198

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 plan to use a Python script to run an Azure Machine Learning experiment. The script creates a reference to the experiment run context, loads data from a file, identifies the set of unique values for the label column, and completes the experiment run:

```
from azureml.core import Run
```

```
import pandas as pd
```

```
run = Run.get_context()
```

```
data = pd.read_csv('data.csv')
```

```
label_vals = data['label'].unique()
```

```
# Add code to record metrics here
```

```
run.complete()
```

The experiment must record the unique labels in the data as metrics for the run that can be reviewed later.

You must add code to the script to record the unique label values as run metrics at the point indicated by the comment.

Solution: Replace the comment with the following code:

```
for label_val in label_vals:
    run.log('Label Values', label_val)
Does the solution meet the goal?
```

- A. No
- B. Yes

Answer: B

Explanation:

Explanation

The `run_log` function is used to log the contents in `label_vals`:

```
for label_val in label_vals:
```

```
run.log('Label Values', label_val)
```

Reference:

<https://www.element61.be/en/resource/azure-machine-learning-services-complete-toolbox-ai>

NEW QUESTION # 199

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