

HOT DP-100 New Real Test 100% Pass | Valid Microsoft Designing and Implementing a Data Science Solution on Azure New Braindumps Files Pass for sure



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Microsoft DP-100 (Designing and Implementing a Data Science Solution on Azure) Exam is a certification exam that focuses on assessing the skills and knowledge required to design and implement data science solutions using Azure technologies. DP-100 exam is ideal for professionals who want to demonstrate their expertise in the field of data science and enhance their career prospects.

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Microsoft DP-100 Certification Exam covers a wide range of topics related to data science, including data exploration and visualization, data preparation, modeling, and deployment. It also covers various Azure tools and services for data science, such as Azure Machine Learning, Azure Databricks, Azure Stream Analytics, and more. DP-100 Exam is designed to test your ability to design and implement end-to-end data science solutions on the Azure platform.

Microsoft Designing and Implementing a Data Science Solution on Azure Sample Questions (Q331-Q336):

NEW QUESTION # 331

You create an experiment in Azure Machine Learning Studio. You add a training dataset that contains 10,000 rows. The first 9,000 rows represent class 0 (90 percent).

The remaining 1,000 rows represent class 1 (10 percent).

The training set is imbalanced between two classes. You must increase the number of training examples for class 1 to 4,000 by using 5 data rows. You add the Synthetic Minority Oversampling Technique (SMOTE) module to the experiment.

You need to configure the module.

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

NOTE: Each correct selection is worth one point.

SMOTE

Label column

Selected columns:
All labels

Launch column selector

SMOTE percentage

0
300
3000
4000

Number of nearest neighbors

0
1
5
4000

Random seed

0

Microsoft

Answer:

Explanation:

SMOTE

Label column

Selected columns:
All labels

Launch column selector

SMOTE percentage

0
300
3000
4000

Number of nearest neighbors

0
1
5
4000

Random seed

0

Explanation:

SMOTE

Label column

Selected columns:
All labels

Launch column selector

SMOTE percentage

0
300
3000
4000

Number of nearest neighbors

0
1
5
4000

Random seed

0

Box 1: 300

You type 300 (%), the module triples the percentage of minority cases (3000) compared to the original dataset (1000).

Box 2: 5

We should use 5 data rows.

Use the Number of nearest neighbors option to determine the size of the feature space that the SMOTE algorithm uses when in building new cases. A nearest neighbor is a row of data (a case) that is very similar to some target case. The distance between any two cases is measured by combining the weighted vectors of all features.

By increasing the number of nearest neighbors, you get features from more cases.

By keeping the number of nearest neighbors low, you use features that are more like those in the original sample.

References:

<https://docs.microsoft.com/en-us/azure/machine-learning/studio-module-reference/smote>

NEW QUESTION # 332

You are developing a machine learning solution by using the Azure Machine Learning designer.

You need to create a web service that applications can use to submit data feature values and retrieve a predicted label.

Which three actions should you perform in sequence? To answer, move the appropriate actions from the list of actions to the answer area and arrange them in the correct order.

Actions

- Create and run a batch inference pipeline.
- Create and run a training pipeline.
- Deploy a service to an inference cluster.
- Create and run a real-time inference pipeline.

Answer area

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Navigation: < > < >

Answer:

Explanation:

Actions

- Create and run a batch inference pipeline.
- Create and run a training pipeline.
- Deploy a service to an inference cluster.
- Create and run a real-time inference pipeline.

Answer area

- Create and run a training pipeline.
- Deploy a service to an inference cluster.
- Create and run a real-time inference pipeline.

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Navigation: < > < >

Explanation

Actions

- Create and run a batch inference pipeline.

Answer area

- Create and run a training pipeline.
- Deploy a service to an inference cluster.
- Create and run a real-time inference pipeline.

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Navigation: < > < >

NEW QUESTION # 333

You load data from a notebook in an Azure Machine Learning workspace into a pandas dataframe. The data contains 10,000 records. Each record consists of 10 columns.

You must identify the number of missing values in each of the columns.

You need to complete the Python code that will return the number of missing values in each of the columns.

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

NOTE: Each correct selection is worth one point.

Answer Area

df. values 10] = df.count()

index 0

shape 10

values 100,000

Microsoft

Answer:

Explanation:

Answer Area

df. values 10] = df.count()

index 0

shape 10

values 100,000

Microsoft

Explanation:

Answer Area

df. values 10 df.count()

Microsoft

NEW QUESTION # 334

You use the Azure Machine learning SDK v2 for Python and notebooks to train a model. You use Python code to create a compute target, an environment, and a training script. You need to prepare information to submit a training job.

Which class should you use?

- A. **command**
- B. BuildContext
- C. EndpointConnection
- D. MLCClient

Answer: A

NEW QUESTION # 335

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

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
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
STANDARD_E64_V3	64		432 GB	1,600 GB
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STANDARD_NC24	24	4	224 GB	1,440 GB

Explanation

Name ↑	vCPUs	GPUs	RAM	Resource disk
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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 # 336

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