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Microsoft DP-100 Practice Questions

Designing and Implementing a Data Science Solution on Azure

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Microsoft DP-100 exam, also known as Designing and Implementing a Data Science Solution on Azure, is a certification exam for professionals who wish to demonstrate their skills in designing and implementing data science solutions on Azure. DP-100 exam is part of Microsoft's Azure certification program and is targeted towards data scientists, machine learning engineers, and other professionals involved in data science.

Microsoft DP-100 exam is a great way for data scientists to validate their skills and knowledge in Azure data science solutions. Passing DP-100 exam shows that the candidate has the necessary skills to design, implement, and deploy data science solutions on Azure. Moreover, this certification can be a valuable asset for individuals who want to advance their career in the data science field, as it demonstrates their proficiency in various areas related to data science.

Microsoft DP-100 Certification Exam is a valuable credential for data professionals who work with Azure technologies and want to validate their skills in designing and implementing data science solutions. DP-100 exam covers a broad range of topics related to data science and Azure services, and candidates can prepare for it by taking training courses and accessing online resources. Passing

the DP-100 exam is a significant achievement that can help data professionals advance their careers and demonstrate their expertise to potential employers.

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Microsoft Designing and Implementing a Data Science Solution on Azure Sample Questions (Q40-Q45):

NEW QUESTION # 40

You are preparing to build a deep learning convolutional neural network model for image classification. You create a script to train the model using CUDA devices.

You must submit an experiment that runs this script in the Azure Machine Learning workspace.

The following compute resources are available:

a Microsoft Surface device on which Microsoft Office has been installed. Corporate IT policies prevent the installation of additional software a Compute Instance named in the workspace with 2 CPUs and 8 GB of memory an Azure Machine Learning compute target named with eight CPU-based nodes an Azure Machine Learning compute target named with four CPU and GPU-based nodes You need to specify the compute resources to be used for running the code to submit the experiment, and for running the script in order to minimize model training time.

Which resources should the data scientist use? To answer, select the appropriate options in the answer area.

NOTE: Each correct selection is worth one point.

Resource type	Option
Run code to submit the experiment	<div><div>▼</div><div>the Microsoft Surface device</div><div>the ds-workstation/notebook VM</div><div>the cpu-cluster compute target</div><div>the gpu-cluster compute target</div></div>
Run the training script	<div><div>▼</div><div>the ds-workstation notebook VM</div><div>the cpu-compute target</div><div>the gpu-compute target</div><div>the Microsoft Surface device</div></div>

Answer:

Explanation:

Resource type	Option
Run code to submit the experiment	<div>▼</div> <ul style="list-style-type: none"> the Microsoft Surface device the ds-workstation notebook VM the cpu-cluster compute target the gpu-cluster compute target
Run the training script	<div>▼</div> <ul style="list-style-type: none"> the ds-workstation notebook VM the cpu-compute target the gpu-compute target the Microsoft Surface device

Explanation

Resource type	Option
Run code to submit the experiment	<div>▼</div> <ul style="list-style-type: none"> the Microsoft Surface device the ds-workstation notebook VM the cpu-cluster compute target the gpu-cluster compute target
Run the training script	<div>▼</div> <ul style="list-style-type: none"> the ds-workstation notebook VM the cpu-compute target the gpu-compute target the Microsoft Surface device

NEW QUESTION # 41

You create a multi-class image classification deep learning experiment by using the PyTorch framework. You plan to run the experiment on an Azure Compute cluster that has nodes with GPU's.

You need to define an Azure Machine Learning service pipeline to perform the monthly retraining of the image classification model. The pipeline must run with minimal cost and minimize the time required to train the model.

Which three pipeline steps should you run 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

- Configure a DataTransferStep() to fetch new image data from public web portal, running on the cpu-compute compute target.
- Configure an EstimatorStep() to run an estimator that runs the bird_classifier_train.py model training script on the gpu_compute compute target.
- Configure a PythonScriptStep() to run both image_fetcher.py and image_resize.py on the cpu-compute compute target.
- Configure an EstimatorStep() to run an estimator that runs the bird_classifier_train.py model training script on the cpu_compute compute target.
- Configure a PythonScriptStep() to run image_fetcher.py on the cpu-compute compute target.
- Configure a PythonScriptStep() to run image_resize.py on the cpu-compute compute target.
- Configure a PythonScriptStep() to run bird_classifier_train.py on the cpu-compute compute target.
- Configure a PythonScriptStep() to run bird_classifier_train.py on the gpu-compute compute target.

Answer Area

Answer:

Explanation:

Actions

- Configure a DataTransferStep() to fetch new image data from public web portal, running on the cpu-compute compute target.
- Configure an EstimatorStep() to run an estimator that runs the bird_classifier_train.py model training script on the gpu_compute compute target.
- Configure a PythonScriptStep() to run both image_fetcher.py and image_resize.py on the cpu-compute compute target.
- Configure an EstimatorStep() to run an estimator that runs the bird_classifier_train.py model training script on the cpu_compute compute target.
- Configure a PythonScriptStep() to run image_fetcher.py on the cpu-compute compute target.
- Configure a PythonScriptStep() to run image_resize.py on the cpu-compute compute target.
- Configure a PythonScriptStep() to run bird_classifier_train.py on the cpu-compute compute target.
- Configure a PythonScriptStep() to run bird_classifier_train.py on the gpu-compute compute target.

Answer Area

- Configure a DataTransferStep() to fetch new image data from public web portal, running on the cpu-compute compute target.
- Configure a PythonScriptStep() to run image_resize.py on the cpu-compute compute target.
- Configure an EstimatorStep() to run an estimator that runs the bird_classifier_train.py model training script on the gpu_compute compute target.

Reference:

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

NEW QUESTION # 42

You have a dataset that contains records of patients tested for diabetes. The dataset includes the patient's age.

You plan to create an analysis that will report the mean age value from the differentially private data derived from the dataset. You need to identify the epsilon value to use in the analysis that minimizes the risk of exposing the actual data.

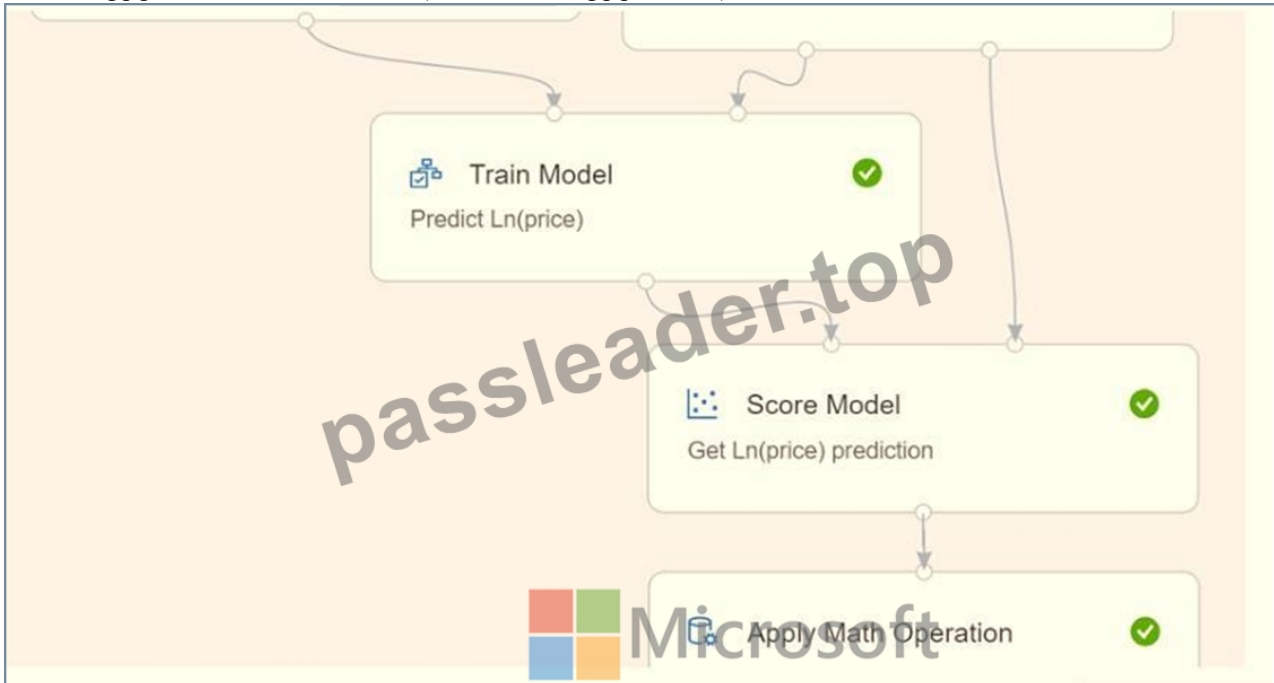
Which epsilon value should you use?

- A. -1.5
- B. -0.5
- C. 0.5
- D. 1.5

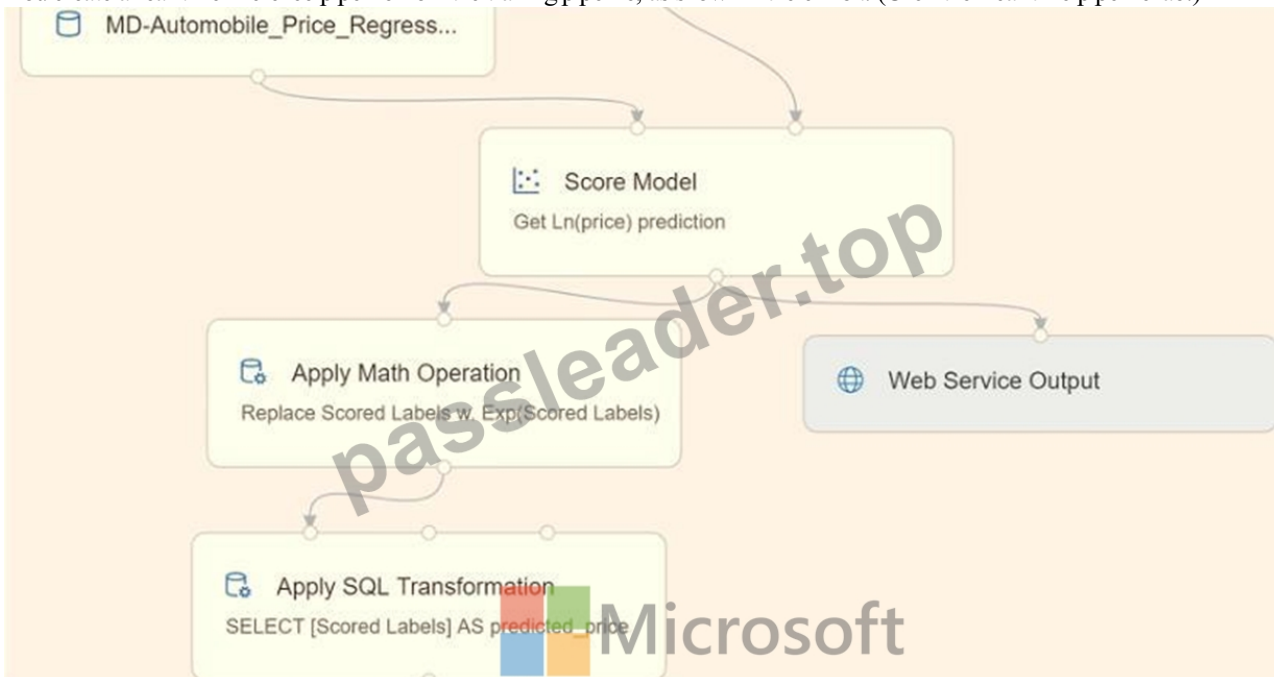
Answer: C

NEW QUESTION # 43

Because of non-linear relationships in the data, the pipeline calculates the natural log (Ln) of the prices in the training data, trains a model to predict this natural log of price value, and then calculates the exponential of the scored label to get the predicted price. The training pipeline is shown in the exhibit (Click the Training pipeline tab.)



You create a real-time inference pipeline from the training pipeline, as shown in the exhibit. (Click the Real-time pipeline lab.)



You need to modify the inference pipeline to ensure that the web service returns the exponential of the scored label as the predicted automobile price and that client applications are not required to include a price value in the input values.

Which three modifications must you make to the inference pipeline? Each correct answer presents part of the solution.

- A. Connect the output of the Apply SQL Transformation to the Web Service Output module.
- B. Replace the training dataset module with a data input that does not include the price column.
- C. Replace the Web Service Input module with a data input that does not include the price column.
- D. Remove the Apply Math Operation module that replaces price with its natural log from the data flow.

Answer: A

NEW QUESTION # 44

You create an Azure Machine Learning workspace.

You must configure an event handler to send an email notification when data drift is detected in the workspace datasets. You must minimize development efforts.

You need to configure an Azure service to send the notification.

Which Azure service should you use?

- A. Azure DevOps pipeline
- B. Azure Automation runbook
- C. Azure Logic Apps
- **D. Azure Function apps**

Answer: D

NEW QUESTION # 45

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