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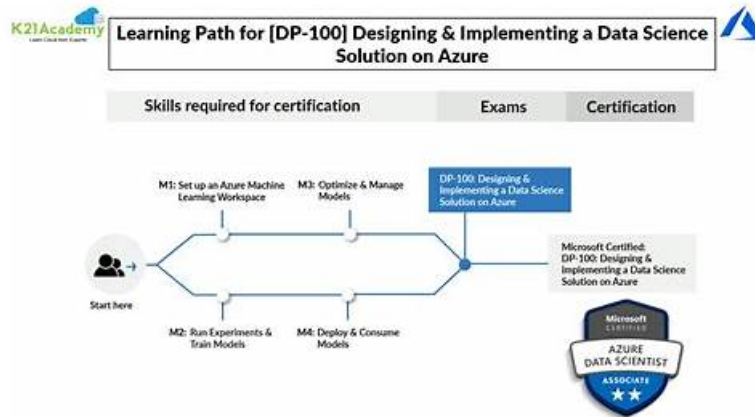

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I believe that a lot of people working in the IT industry hope to pass some IT certification exams to obtain the corresponding certifications. Some IT authentication certificates can help you promote to a higher job position in this fiercely competitive IT industry. Now the very popular Microsoft DP-100 authentication certificate is one of them. Although passing the Microsoft certification DP-100 exam is not so easy, there are still many ways to help you successfully pass the exam. While you can choose to spend a lot of time and energy to review the related IT knowledge, and also you can choose a effective training course. ITdumpsfree can provide the pertinent simulation test,which is very effective to help you pass the exam and can save your precious time and energy to achieve your dream. ITdumpsfree will be your best choice.

DP-100 Exam Outline

The Microsoft DP-100 was recently renewed to meet the most current market needs and now it measures the following skills:

- Deploying and Consuming Models;
- Running Experiments and Training Models.
- Setting Up the Workspace for Azure Machine Learning;
- Optimizing and Managing Models;

The DP-100 exam domain of Setting Up the Workspace for Azure Machine Learning (ML) has three sections. The first touches on creating the workspace for ML. Here, you're to come across tasks like creating and configuring the workspace and managing it using Azure ML studio. The next part is concerning data object management within the workspace of Azure ML, where the focus goes to registering and maintaining datasets. The final aspect regards maintaining contexts for experiment compute. Under this, there will be creating instances for compute, determining the appropriate specs for compute targeting workload training, and developing targets for compute directed at experiments as well as training.

Regarding Optimizing and Managing Models, candidates will build their skills in five crucial areas. To begin is the area of creating optimal models using automated ML. This takes into account areas like Azure ML studio, Azure ML SDK, scaling options for pre-processing, algorithm determination, and getting data to be utilized in running the automated ML. The next thing goes into tuning hyperparameters using hyperdrive. Candidates need to note the sampling methods, search space, primary metric, termination options, and the right model. Another field concerns managing models where coverage includes model interpreters and feature importance data. Finally, students will learn how to manage models by exploring trained model registration, monitoring model usage, and monitoring data drift.

The Microsoft DP-100 Exam also deals with the Deploying and Consuming Models. Of interest, there are four sections. It starts with the creation of targets for production compute involving security meant for deployed services & compute options targeting deployment. It's followed by the part of deploying a model as a service. This touches deployment settings, consuming deployed services, and troubleshooting issues for deployment containers. The next segment is creating a batch interference pipeline. Finally, students look at publishing a web service in the form of a designer pipeline. Issues also covered are compute resource, inference pipeline, and consumption of an already deployed endpoint.

The last DP-100 exam domain talks about Running Experiments and Training Models. The first way to achieve abilities in this area is by learning how to use Azure ML Designer to create models. This will be actualized by exploring creation of a training pipeline, ingestion of data within a designer pipeline, defining data flow for a pipeline using designer modules, and using modules for custom code. The second one regards running training scripts within the Azure ML workspace. Within this sphere, the students' focus will be how to use the Azure ML SDK in consuming data from a dataset in an experiment. The third thing in this topic has to do with using an experiment run to generate metrics. Here, learning includes log metrics, retrieving and viewing experiment outputs, and troubleshooting experiment errors using logs. The fourth and final area of concern is automating the process of model training. This includes developing a pipeline by utilizing the SDK, passing data, running a pipeline, and monitoring pipeline runs.

Certification Path

The Microsoft Certified Azure Data Scientist Associate Certification includes only one DP-100 Exam.

Microsoft Reliable DP-100 Exam Bootcamp: Designing and Implementing a Data Science Solution on Azure - ITdumpsfree Help you Prepare Exam Easily

With the development of artificial intelligence, we have encountered more challenges. Only by improving our own soft power can we ensure we are not eliminated by the market. Select DP-100 study questions to improve your work efficiency. And you won't regret for your wise choice. Because our DP-100 Exam Materials contain the newest knowledge in this subject. And our DP-100 training guide is beening updated from time to time to be up-to-date. What is more, you will get the certification with the help of our DP-100 practice engine.

Microsoft DP-100 is a certification exam designed for data scientists who want to validate their skills in designing and implementing data science solutions on the Azure platform. DP-100 Exam is intended to test the candidate's knowledge of Azure tools and services in building an end-to-end data science solution, from data ingestion to deployment.

Microsoft Designing and Implementing a Data Science Solution on Azure Sample Questions (Q228-Q233):

NEW QUESTION # 228
You have a binary classifier that predicts positive cases of diabetes within two separate age groups.
The classifier exhibits a high degree of disparity between the age groups.
You need to modify the output of the classifier to maximize its degree of fairness across the age groups and meet the following requirements:
* Eliminate the need to retrain the model on which the classifier is based.
* Minimize the disparity between true positive rates and false positive rates across age groups.
Which algorithm and panty constraint should you use? To answer, select the appropriate options in the answer area. NOTE: Each correct selection is worth one point.

Answer:

Explanation:
Explanation

NEW QUESTION # 229
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 first 1.000 rows represent class 1 (10 percent).
The training set is unbalanced between two Classes. You must increase the number of training examples for class 1 to 4,000 by using 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.

Answer:

Explanation:

NEW QUESTION # 230

You are developing a linear regression model in Azure Machine Learning Studio. You run an experiment to compare different algorithms.

The following image displays the results dataset output:

Use the drop-down menus to select the answer choice that answers each question based on the information presented in the image.

NOTE: Each correct selection is worth one point.

Answer:

Explanation:

Explanation

Box 1: Boosted Decision Tree Regression

Mean absolute error (MAE) measures how close the predictions are to the actual outcomes; thus, a lower score is better.

Box 2:

Online Gradient Descent: If you want the algorithm to find the best parameters for you, set Create trainer mode option to Parameter Range. You can then specify multiple values for the algorithm to try.

References:

https://docs.microsoft.com/en-us/azure/machine-learning/studio-module-reference/evaluate-model

https://docs.microsoft.com/en-us/azure/machine-learning/studio-module-reference/linear-regression

NEW QUESTION # 231

Hotspot Question

You create a list of movie descriptions in text data format.

You must analyze the movie descriptions with automated machine learning.

You need to use the Azure Machine Learning for Python SDK v1 to configure a job with the specific natural language processing (NLP) task function for AutoML jobs.

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

NOTE: Each correct selection is worth one point.

Answer:

Explanation:

Explanation:

https://learn.microsoft.com/en-us/azure/machine-learning/how-to-auto-train-nlp- models?tabs=cli#named-entity-recognition-ner

NEW QUESTION # 232

You create a binary classification model to predict whether a person has a disease.

You need to detect possible classification errors.

Which error type should you choose for each description? To answer, select the appropriate options in the answer area.

NOTE: Each correct selection is worth one point.

Answer:

Explanation:

Reference:

https://developers.google.com/machine-learning/crash-course/classification/true-false-positive-negative

NEW QUESTION # 233

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