

Utilizing Exam AWS-Certified-Machine-Learning-Specialty Objectives - No Worry About AWS Certified Machine Learning - Specialty



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The VCEdumps is committed to making the entire Amazon AWS-Certified-Machine-Learning-Specialty exam preparation process instant and successful. To achieve these objectives the VCEdumps is offering real, valid, and updated AWS Certified Machine Learning - Specialty (AWS-Certified-Machine-Learning-Specialty) exam practice test questions in three high in demand formats. These formats are Amazon AWS-Certified-Machine-Learning-Specialty PDF dumps files, desktop practice test software, and web-based practice test software.

How to Prepare for the AWS Certified Machine Learning Specialty Exam

Preparation Guide for For AWS Certified Machine Learning Specialty Exam

Introduction

Amazon Web Services is the current market leader in the field of cloud computing. Many organizations are boarding the AWS train for very promising benefits. Profitability, flexibility, ease of use and comprehensive support are the pillars of AWS's popularity. As AWS gained popularity, many companies began looking for AWS certified professionals.

AWS certified machine learning specialty certification is one of many AWS certifications popular today. AWS provides certification to validate an individual's skills and experience in AWS specific tools, resources and technologies. The following discussion will focus on the details of the AWS certified machine learning specialty certification. The purpose of the following discussion is to support the preparation of candidates for the certification exam.

AWS MLS-C01 Exam Certification Details:

Sample Questions	AWS MLS-C01 Sample Questions
Recommended Training / Books	Practical Data Science with Amazon SageMaker The Machine Learning Pipeline on AWS Deep Learning on AWS
Duration	180 minutes
Passing Score	750 / 1000
Exam Price	\$300 USD
Schedule Exam	PEARSON VUE
Exam Name	AWS Certified Machine Learning - Specialty (Machine Learning Specialty)

2025 Amazon Unparalleled Exam AWS-Certified-Machine-Learning-Specialty Objectives Pass Guaranteed Quiz

By overcoming your mistakes before the actual Amazon AWS-Certified-Machine-Learning-Specialty exam, you can avoid making those same errors during the AWS Certified Machine Learning - Specialty (AWS-Certified-Machine-Learning-Specialty) real test. With customizable AWS-Certified-Machine-Learning-Specialty practice tests, you can adjust the duration and quantity of AWS-Certified-Machine-Learning-Specialty Practice Questions. This self-assessment AWS-Certified-Machine-Learning-Specialty exam display your marks, helping you improve your performance while tracking your progress.

The AWS Certified Machine Learning - Specialty Exam covers a wide range of topics related to machine learning, including data preparation, feature engineering, model selection and evaluation, and deployment. It also covers advanced topics such as deep learning, natural language processing, and computer vision. AWS-Certified-Machine-Learning-Specialty Exam consists of multiple-choice questions and is available in English, Simplified Chinese, Korean, and Japanese.

Amazon AWS Certified Machine Learning - Specialty Sample Questions (Q119-Q124):

NEW QUESTION # 119

A Data Scientist is developing a machine learning model to predict future patient outcomes based on information collected about each patient and their treatment plans. The model should output a continuous value as its prediction. The data available includes labeled outcomes for a set of 4,000 patients. The study was conducted on a group of individuals over the age of 65 who have a particular disease that is known to worsen with age.

Initial models have performed poorly. While reviewing the underlying data, the Data Scientist notices that, out of 4,000 patient observations, there are 450 where the patient age has been input as 0. The other features for these observations appear normal compared to the rest of the sample population.

How should the Data Scientist correct this issue?

- A. Replace the age field value for records with a value of 0 with the mean or median value from the dataset.
- B. Drop the age feature from the dataset and train the model using the rest of the features.
- C. Use k-means clustering to handle missing features.
- D. Drop all records from the dataset where age has been set to 0.

Answer: A

Explanation:

The best way to handle the missing values in the patient age feature is to replace them with the mean or median value from the dataset. This is a common technique for imputing missing values that preserves the overall distribution of the data and avoids introducing bias or reducing the sample size. Dropping the records or the feature would result in losing valuable information and reducing the accuracy of the model. Using k-means clustering would not be appropriate for handling missing values in a single feature, as it is a method for grouping similar data points based on multiple features.

References:

Effective Strategies to Handle Missing Values in Data Analysis

How To Handle Missing Values In Machine Learning Data With Weka

How to handle missing values in Python - Machine Learning Plus

NEW QUESTION # 120

A retail company is using Amazon Personalize to provide personalized product recommendations for its customers during a marketing campaign. The company sees a significant increase in sales of recommended items to existing customers immediately after deploying a new solution version, but these sales decrease a short time after deployment. Only historical data from before the marketing campaign is available for training.

How should a data scientist adjust the solution?

- A. Add user metadata and use the HRNN-Metadata recipe in Amazon Personalize.
- B. Use the event tracker in Amazon Personalize to include real-time user interactions.
- C. Implement a new solution using the built-in factorization machines (FM) algorithm in Amazon SageMaker.
- D. Add event type and event value fields to the interactions dataset in Amazon Personalize.

Answer: D

NEW QUESTION # 121

A machine learning engineer is building a bird classification model. The engineer randomly separates a dataset into a training dataset and a validation dataset. During the training phase, the model achieves very high accuracy. However, the model did not generalize well during validation of the validation dataset. The engineer realizes that the original dataset was imbalanced.

What should the engineer do to improve the validation accuracy of the model?

- **A. Perform stratified sampling on the original dataset.**
- B. Perform systematic sampling on the original dataset.
- C. Acquire additional data about the majority classes in the original dataset.
- D. Use a smaller, randomly sampled version of the training dataset.

Answer: A

Explanation:

Stratified sampling is a technique that preserves the class distribution of the original dataset when creating a smaller or split dataset. This means that the proportion of examples from each class in the original dataset is maintained in the smaller or split dataset.

Stratified sampling can help improve the validation accuracy of the model by ensuring that the validation dataset is representative of the original dataset and not biased towards any class. This can reduce the variance and overfitting of the model and increase its generalization ability.

Stratified sampling can be applied to both oversampling and undersampling methods, depending on whether the goal is to increase or decrease the size of the dataset.

The other options are not effective ways to improve the validation accuracy of the model. Acquiring additional data about the majority classes in the original dataset will only increase the imbalance and make the model more biased towards the majority classes. Using a smaller, randomly sampled version of the training dataset will not guarantee that the class distribution is preserved and may result in losing important information from the minority classes. Performing systematic sampling on the original dataset will also not ensure that the class distribution is preserved and may introduce sampling bias if the original dataset is ordered or grouped by class.

NEW QUESTION # 122

A retail chain has been ingesting purchasing records from its network of 20,000 stores to Amazon S3 using Amazon Kinesis Data Firehose. To support training an improved machine learning model, training records will require new but simple transformations, and some attributes will be combined. The model needs to be retrained daily.

Given the large number of stores and the legacy data ingestion, which change will require the LEAST amount of development effort?

- A. Deploy an Amazon EMR cluster running Apache Spark with the transformation logic, and have the cluster run each day on the accumulating records in Amazon S3, outputting new/transformed records to Amazon S3.
- B. Require that the stores to switch to capturing their data locally on AWS Storage Gateway for loading into Amazon S3, then use AWS Glue to do the transformation.
- C. Spin up a fleet of Amazon EC2 instances with the transformation logic, have them transform the data records accumulating on Amazon S3, and output the transformed records to Amazon S3.
- **D. Insert an Amazon Kinesis Data Analytics stream downstream of the Kinesis Data Firehose stream that transforms raw record attributes into simple transformed values using SQL.**

Answer: D

NEW QUESTION # 123

A company is setting up an Amazon SageMaker environment. The corporate data security policy does not allow communication over the internet.

How can the company enable the Amazon SageMaker service without enabling direct internet access to Amazon SageMaker notebook instances?

- **A. Create Amazon SageMaker VPC interface endpoints within the corporate VPC.**
- B. Create a NAT gateway within the corporate VPC.
- C. Route Amazon SageMaker traffic through an on-premises network.
- D. Create VPC peering with Amazon VPC hosting Amazon SageMaker.

Answer: A

Explanation:

To enable the Amazon SageMaker service without enabling direct internet access to Amazon SageMaker notebook instances, the company should create Amazon SageMaker VPC interface endpoints within the corporate VPC. A VPC interface endpoint is a gateway that enables private connections between the VPC and supported AWS services without requiring an internet gateway, a NAT device, a VPN connection, or an AWS Direct Connect connection. The instances in the VPC do not need to connect to the public internet in order to communicate with the Amazon SageMaker service. The VPC interface endpoint connects the VPC directly to the Amazon SageMaker service using AWS PrivateLink, which ensures that the traffic between the VPC and the service does not leave the AWS network¹.

References:

1: Connect to SageMaker Within your VPC - Amazon SageMaker

NEW QUESTION # 124

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