

# AWS-Certified-Machine-Learning-Specialty Exam Revision Plan & Updated AWS-Certified-Machine- Learning-Specialty CBT



P.S. Free 2025 Amazon AWS-Certified-Machine-Learning-Specialty dumps are available on Google Drive shared by TopExamCollection: [https://drive.google.com/open?id=15E9VxIY-n9qilZz\\_whoMOaAsLrKpf-p](https://drive.google.com/open?id=15E9VxIY-n9qilZz_whoMOaAsLrKpf-p)

Our products are officially certified, and our AWS-Certified-Machine-Learning-Specialty exam materials are definitely the most authoritative product in the industry. In order to ensure the authority of our AWS-Certified-Machine-Learning-Specialty practice prep, our company has really taken many measures. We have hired the most professional experts to compile the content of the AWS-Certified-Machine-Learning-Specialty study braindumps, and design the displays. So our AWS-Certified-Machine-Learning-Specialty learning questions can stand the test of the market.

To take the AWS Certified Machine Learning - Specialty exam, candidates must have a minimum of one year of experience in designing and implementing machine learning models on the AWS platform. They should also have a strong understanding of machine learning algorithms, data modeling, and data processing techniques. AWS-Certified-Machine-Learning-Specialty Exam consists of 65 multiple-choice and multiple-response questions, and candidates have 3 hours to complete it.

Amazon AWS Certified Machine Learning - Specialty certification exam is a professional-level certification that validates a candidate's skills and expertise in designing, implementing, and maintaining machine learning solutions on the AWS platform. AWS Certified Machine Learning - Specialty certification is intended for individuals who already have a solid understanding of machine learning concepts and are looking to deepen their knowledge and skills in AWS-specific machine learning tools and services.

**>> AWS-Certified-Machine-Learning-Specialty Exam Revision Plan <<**

## Updated Amazon AWS-Certified-Machine-Learning-Specialty CBT & AWS-Certified-Machine-Learning-Specialty Book Free

Amazon study dumps training Q&As Are Based On The Real Exam. Best AWS-Certified-Machine-Learning-Specialty study material make you pass exam easily. AWS Certified Machine Learning - Specialty dump PDF Questions collection for Practice..latest AWS-Certified-Machine-Learning-Specialty Test Engine are available. Hot AWS Certified Machine Learning - Specialty questions to pass the exam in First Attempt Easily. High quality AWS-Certified-Machine-Learning-Specialty relevant exam dumps. Best practice for you.

The Amazon AWS-Certified-Machine-Learning-Specialty Exam consists of multiple-choice questions and is designed to test an individual's understanding of machine learning concepts and their ability to apply these concepts in real-world scenarios. AWS-Certified-Machine-Learning-Specialty exam covers a wide range of topics, including data preparation, feature engineering, model training and evaluation, and model deployment. Candidates are also expected to have a strong understanding of AWS services such as Amazon SageMaker, Amazon S3, and AWS Lambda.

## Amazon AWS Certified Machine Learning - Specialty Sample Questions (Q213-Q218):

### NEW QUESTION # 213

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:

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 # 214

A Data Science team within a large company uses Amazon SageMaker notebooks to access data stored in Amazon S3 buckets. The IT Security team is concerned that internet-enabled notebook instances create a security vulnerability where malicious code running on the instances could compromise data privacy. The company mandates that all instances stay within a secured VPC with no internet access, and data communication traffic must stay within the AWS network.

How should the Data Science team configure the notebook instance placement to meet these requirements?

- A. Associate the Amazon SageMaker notebook with a private subnet in a VPC. Place the Amazon SageMaker endpoint and S3 buckets within the same VPC.
- **B. Associate the Amazon SageMaker notebook with a private subnet in a VPC. Ensure the VPC has S3 VPC endpoints and Amazon SageMaker VPC endpoints attached to it.**
- C. Associate the Amazon SageMaker notebook with a private subnet in a VPC. Ensure the VPC has a NAT gateway and an associated security group allowing only outbound connections to Amazon S3 and Amazon SageMaker.
- D. Associate the Amazon SageMaker notebook with a private subnet in a VPC. Use IAM policies to grant access to Amazon S3 and Amazon SageMaker.

**Answer: B**

Explanation:

We must use the VPC endpoint (either Gateway Endpoint or Interface Endpoint) to comply with this requirement "Data communication traffic must stay within the AWS network".

<https://docs.aws.amazon.com/sagemaker/latest/dg/notebook-interface-endpoint.html>

### NEW QUESTION # 215

A trucking company is collecting live image data from its fleet of trucks across the globe. The data is growing rapidly and approximately 100 GB of new data is generated every day. The company wants to explore machine learning use cases while ensuring the data is only accessible to specific IAM users.

Which storage option provides the most processing flexibility and will allow access control with IAM?

- **A. Setup up Amazon EMR with Hadoop Distributed File System (HDFS) to store the files, and restrict access to the EMR**

instances using IAM policies.

- B. Use a database, such as Amazon DynamoDB, to store the images, and set the IAM policies to restrict access to only the desired IAM users.
- C. Use an Amazon S3-backed data lake to store the raw images, and set up the permissions using bucket policies.
- D. Configure Amazon EFS with IAM policies to make the data available to Amazon EC2 instances owned by the IAM users.

**Answer: A**

#### NEW QUESTION # 216

A data scientist is training a large PyTorch model by using Amazon SageMaker. It takes 10 hours on average to train the model on GPU instances. The data scientist suspects that training is not converging and that resource utilization is not optimal. What should the data scientist do to identify and address training issues with the LEAST development effort?

- A. Use CPU utilization metrics that are captured in Amazon CloudWatch. Configure a CloudWatch alarm to stop the training job early if low CPU utilization occurs.
- B. Use high-resolution custom metrics that are captured in Amazon CloudWatch. Configure an AWS Lambda function to analyze the metrics and to stop the training job early if issues are detected.
- C. Use the SageMaker Debugger vanishing\_gradient and LowGPUUtilization built-in rules to detect issues and to launch the StopTrainingJob action if issues are detected.
- D. Use the SageMaker Debugger confusion and feature\_importance\_overweight built-in rules to detect issues and to launch the StopTrainingJob action if issues are detected.

**Answer: C**

Explanation:

The solution C is the best option to identify and address training issues with the least development effort. The solution C involves the following steps:

- \* Use the SageMaker Debugger vanishing\_gradient and LowGPUUtilization built-in rules to detect issues. SageMaker Debugger is a feature of Amazon SageMaker that allows data scientists to monitor, analyze, and debug machine learning models during training. SageMaker Debugger provides a set of built-in rules that can automatically detect common issues and anomalies in model training, such as vanishing or exploding gradients, overfitting, underfitting, low GPU utilization, and more<sup>1</sup>. The data scientist can use the vanishing\_gradient rule to check if the gradients are becoming too small and causing the training to not converge. The data scientist can also use the LowGPUUtilization rule to check if the GPU resources are underutilized and causing the training to be inefficient<sup>2</sup>.
- \* Launch the StopTrainingJob action if issues are detected. SageMaker Debugger can also take actions based on the status of the rules. One of the actions is StopTrainingJob, which can terminate the training job if a rule is in an error state. This can help the data scientist to save time and money by stopping the training early if issues are detected<sup>3</sup>.

The other options are not suitable because:

- \* Option A: Using CPU utilization metrics that are captured in Amazon CloudWatch and configuring a CloudWatch alarm to stop the training job early if low CPU utilization occurs will not identify and address training issues effectively. CPU utilization is not a good indicator of model training performance, especially for GPU instances. Moreover, CloudWatch alarms can only trigger actions based on simple thresholds, not complex rules or conditions<sup>4</sup>.
- \* Option B: Using high-resolution custom metrics that are captured in Amazon CloudWatch and configuring an AWS Lambda function to analyze the metrics and to stop the training job early if issues are detected will incur more development effort than using SageMaker Debugger. The data scientist will have to write the code for capturing, sending, and analyzing the custom metrics, as well as for invoking the Lambda function and stopping the training job. Moreover, this solution may not be able to detect all the issues that SageMaker Debugger can<sup>5</sup>.
- \* Option D: Using the SageMaker Debugger confusion and feature\_importance\_overweight built-in rules and launching the StopTrainingJob action if issues are detected will not identify and address training issues effectively. The confusion rule is used to monitor the confusion matrix of a classification model, which is not relevant for a regression model that predicts prices. The feature\_importance\_overweight rule is used to check if some features have too much weight in the model, which may not be related to the convergence or resource utilization issues<sup>2</sup>.

1: Amazon SageMaker Debugger

2: Built-in Rules for Amazon SageMaker Debugger

3: Actions for Amazon SageMaker Debugger

4: Amazon CloudWatch Alarms

5: Amazon CloudWatch Custom Metrics

#### NEW QUESTION # 217

- A. Amazon SageMaker BlazingText allow mode
- B. Scikit-learn term frequency-inverse document frequency (TF-IDF) vectorizers
- C. Amazon Comprehend syntax analysts and entity detection
- D. Natural Language Toolkit (NLTK) stemming and stop word removal

### NEW QUESTION # 218

[illegible]

daotao.wisebusiness.edu.vn, www.stes.tyc.edu.tw, Disposable vapes

BONUS!!! Download part of TopExamCollection AWS-Certified-Machine-Learning-Specialty dumps for free:  
[https://drive.google.com/open?id=15E9VxIY-n9qilZz\\_whoMOaAsLrKpf-p](https://drive.google.com/open?id=15E9VxIY-n9qilZz_whoMOaAsLrKpf-p)