Amazon AWS-Certified-Machine-Learning-Specialty Exam | AWS-Certified-Machine-Learning-Specialty Materials - Help you Pass AWS-Certified-Machine-Learning-Specialty: AWS Certified Machine Learning - Specialty Exam

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Amazon MLS-C01 (AWS Certified Machine Learning - Specialty) certification exam is designed to test the skills and knowledge of individuals who want to work with machine learning on the AWS platform. AWS-Certified-Machine-Learning-Specialty exam is intended for individuals who already have experience with AWS services and are looking to specialize in the field of machine learning. AWS Certified Machine Learning - Specialty certification exam covers a wide range of topics, including data engineering, data analysis, machine learning algorithms, and model optimization.

Amazon MLS-C01 (AWS Certified Machine Learning - Specialty) certification exam is designed to test the knowledge and expertise of professionals in the field of machine learning. AWS-Certified-Machine-Learning-Specialty exam is intended for individuals who have a solid understanding of machine learning concepts and practices and are looking to validate their skills and knowledge in this area. AWS-Certified-Machine-Learning-Specialty Exam is designed to test the candidate's ability to design, implement, and maintain machine learning solutions on the AWS platform.

Amazon MLS-C01 certification exam is a challenging exam that requires a comprehensive understanding of machine learning concepts and best practices. AWS-Certified-Machine-Learning-Specialty exam covers a wide range of topics, including supervised and unsupervised learning, deep learning, reinforcement learning, natural language processing, and computer vision. Candidates are also expected to have a solid understanding of AWS services and tools that are used for building and deploying machine learning

models, such as Amazon SageMaker, Amazon Rekognition, and Amazon Comprehend.

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Amazon AWS Certified Machine Learning - Specialty Sample Questions (Q101-Q106):

NEW QUESTION # 101
A Machine Learning Specialist is working with a large cybersecurily company that manages security events in real time for companies around the world The cybersecurity company wants to design a solution that will allow it to use machine learning to score malicious events as anomalies on the data as it is being ingested The company also wants be able to save the results in its data lake for later processing and analysis What is the MOST efficient way to accomplish these tasks'?

- A. Ingest the data using Amazon Kinesis Data Firehose, and use Amazon Kinesis Data Analytics Random Cut Forest (RCF) for anomaly detection Then use Kinesis Data Firehose to stream the results to Amazon S3
- B. Ingest the data and store it in Amazon S3 Use AWS Batch along with the AWS Deep Learning AMIs to train a k-means model using TensorFlow on the data in Amazon S3.
- C. Ingest the data into Apache Spark Streaming using Amazon EMR. and use Spark MLlib with k-means to perform anomaly detection Then store the results in an Apache Hadoop Distributed File System (HDFS) using Amazon EMR with a replication factor of three as the data lake
- D. Ingest the data and store it in Amazon S3. Have an AWS Glue job that is triggered on demand transform the new data Then use the built-in Random Cut Forest (RCF) model within Amazon SageMaker to detect anomalies in the data

Answer: A

Explanation:
Amazon Kinesis Data Firehose is a fully managed service that can capture, transform, and load streaming data into AWS data stores, such as Amazon S3, Amazon Redshift, Amazon Elasticsearch Service, and Splunk. It can also invoke AWS Lambda functions to perform custom transformations on the data. Amazon Kinesis Data Analytics is a service that can analyze streaming data in real time using SQL or Apache Flink applications. It can also use machine learning algorithms, such as Random Cut Forest (RCF), to perform anomaly detection on streaming data. RCF is an unsupervised learning algorithm that assigns an anomaly score to each data point based on how different it is from the rest of the data. By using Kinesis Data Firehose and Kinesis Data Analytics, the cybersecurity company can ingest the data in real time, score the malicious events as anomalies, and stream the results to Amazon S3, which can serve as a data lake for later processing and analysis. This is the most efficient way to accomplish these tasks, as it does not require any additional infrastructure, coding, or training.
Amazon Kinesis Data Firehose - Amazon Web Services
Amazon Kinesis Data Analytics - Amazon Web Services
Anomaly Detection with Amazon Kinesis Data Analytics - Amazon Web Services
[AWS Certified Machine Learning - Specialty Sample Questions]

NEW QUESTION # 102
A company supplies wholesale clothing to thousands of retail stores. A data scientist must create a model that predicts the daily sales volume for each item for each store. The data scientist discovers that more than half of the stores have been in business for less than 6 months. Sales data is highly consistent from week to week. Daily data from the database has been aggregated weekly, and weeks with no sales are omitted from the current dataset. Five years (100 MB) of sales data is available in Amazon S3.
Which factors will adversely impact the performance of the forecast model to be developed, and which actions should the data scientist take to mitigate them? (Choose two.)

- A. The sales data is missing zero entries for item sales. Request that item sales data from the source database include zero entries to enable building the model.

- B. Only 100 MB of sales data is available in Amazon S3. Request 10 years of sales data, which would provide 200 MB of training data for the model.
- C. Detecting seasonality for the majority of stores will be an issue. Request categorical data to relate new stores with similar stores that have more historical data.
- D. Sales data is aggregated by week. Request daily sales data from the source database to enable building a daily model.
- E. The sales data does not have enough variance. Request external sales data from other industries to improve the model's ability to generalize.

Answer: C,E

Explanation:
Reference:
https://arxiv.org/ftp/arxiv/papers/1302/1302.6613.pdf

NEW QUESTION # 103
A data scientist is designing a repository that will contain many images of vehicles. The repository must scale automatically in size to store new images every day. The repository must support versioning of the images.
The data scientist must implement a solution that maintains multiple immediately accessible copies of the data in different AWS Regions.
Which solution will meet these requirements?

- A. Amazon Elastic Block Store (Amazon EBS) with snapshots that are shared in a secondary Region
- B. AWS Storage Gateway Volume Gateway
- C. Amazon Elastic File System (Amazon EFS) Standard storage that is configured with Regional availability
- D. Amazon S3 with S3 Cross-Region Replication (CRR)

Answer: D

Explanation:
For a repository containing a large and dynamically scaling collection of images, Amazon S3 is ideal due to its scalability and versioning capabilities. Amazon S3 natively supports automatic scaling to accommodate increasing storage needs and allows versioning, which enables tracking and managing different versions of objects.
To meet the requirement of maintaining multiple, immediately accessible copies of data across AWS Regions, S3 Cross-Region Replication (CRR) can be enabled. CRR automatically replicates new or updated objects to a specified destination bucket in another AWS Region, ensuring low-latency access and disaster recovery.
By setting up CRR with versioning enabled, the data scientist can achieve a multi-Region, scalable, and version-controlled repository in Amazon S3.

NEW QUESTION # 104
A Data Scientist needs to analyze employment data. The dataset contains approximately 10 million observations on people across 10 different features. During the preliminary analysis, the Data Scientist notices that income and age distributions are not normal. While income levels shows a right skew as expected, with fewer individuals having a higher income, the age distribution also show a right skew, with fewer older individuals participating in the workforce.
Which feature transformations can the Data Scientist apply to fix the incorrectly skewed data? (Choose two.)

- A. One hot encoding
- B. Numerical value binning
- C. Cross-validation
- D. Logarithmic transformation
- E. High-degree polynomial transformation

Answer: B,D

Explanation:
Explanation
To fix the incorrectly skewed data, the Data Scientist can apply two feature transformations: numerical value binning and logarithmic transformation. Numerical value binning is a technique that groups continuous values into discrete bins or categories. This can help reduce the skewness of the data by creating more balanced frequency distributions. Logarithmic transformation is a technique that applies the natural logarithm function to each value in the data. This can help reduce the right skewness of the data by compressing

the large values and expanding the small values. Both of these transformations can make the data more suitable for machine learning algorithms that assume normality of the data. References:
Data Transformation - Amazon SageMaker
Transforming Skewed Data for Machine Learning

NEW QUESTION # 105

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

Answer: C

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 # 106

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