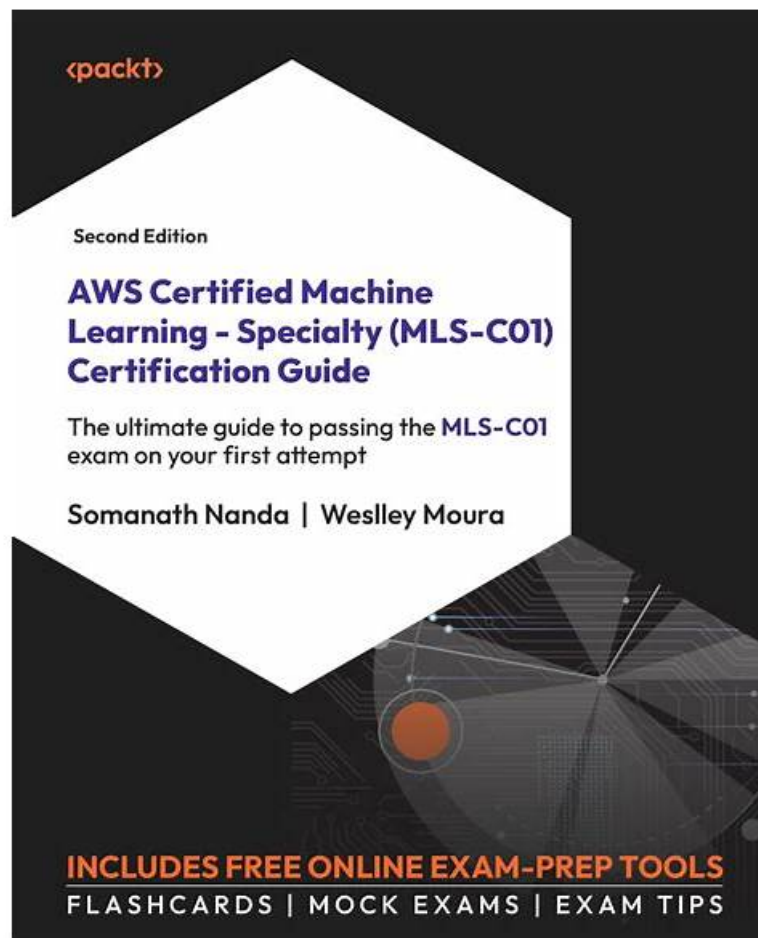# TOP MLS-C01 Associate Level Exam - Amazon AWS Certified Machine Learning - Specialty - The Best Test MLS-C01 Sample Online

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To be eligible for the Amazon MLS-C01 certification exam, candidates should have a deep understanding of AWS services and features used for machine learning, such as Amazon SageMaker, Amazon Rekognition, Amazon Comprehend, and Amazon Lex. Candidates should also have experience working with different types of data, such as structured, unstructured, and semi-structured data, and be familiar with various machine learning algorithms and techniques, such as regression, clustering, classification, and deep learning.

What Exam Is Necessary for AWS Machine Learning – Specialty?

The only test necessary to take the AWS Machine Learning – Specialty certification has the code MLS-C This is a specialty exam and it is delivered in English, Japanese, Korean, and Simplified Chinese. Candidates can use two types of delivery methods:

- In testing centers;

- Online using a proctored exam platform.

The registration fee for the AWS MLS-C01 exam is $300. In case candidates want to enroll in doing a practice exam, they should pay another $40. MLS-C01 test includes two types of questions. Candidates will have to answer both multiple-choice and multiple-answer items. Besides, the passing score range goes from 100 to 1,000 points. A candidate will be successful only when he/she gets a minimum score of 750 points. After successfully completing this MLS-C01 Exam, you will be awarded the AWS Certified Machine Learning Specialty certification. If you add this certificate to your resume and social network, your chances to get better salary offers are higher. Also, this certification is valid for three years. But once its validity expires, you will need to check the vendor's official site for recertification.

Amazon MLS-C01 exam is designed to assess the candidate's knowledge and skills in various areas of machine learning, including data preparation, modeling, training, evaluation, deployment, and security. MLS-C01 exam also covers topics such as deep learning, natural language processing, and computer vision. MLS-C01 exam consists of multiple-choice questions and is conducted online through a secure testing center.

>> MLS-C01 Associate Level Exam <<

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What MLS-C01 study materials can give you is far more than just a piece of information. First of all, MLS-C01 study materials can save you time and money. As a saying goes, to sensible men, every day is a day of reckoning. Every minute MLS-C01 study material saves for you may make you a huge profit. Secondly, MLS-C01 Study Materials will also help you to master a lot of very useful professional knowledge in the process of helping you pass the exam. The MLS-C01 study materials are valuable, but knowledge is priceless.

Amazon AWS Certified Machine Learning - Specialty Sample Questions (Q66-Q71):

NEW QUESTION # 66
A Machine Learning Specialist needs to be able to ingest streaming data and store it in Apache Parquet files for exploration and analysis. Which of the following services would both ingest and store this data in the correct format?

- A. Amazon Kinesis Data Analytics
- B. AWSDMS
- C. Amazon Kinesis Data Firehose
- D. Amazon Kinesis Data Streams

Answer: C

Explanation:
Amazon Kinesis Data Firehose is a service that can ingest streaming data and store it in various destinations, including Amazon S3, Amazon Redshift, Amazon Elasticsearch Service, and Splunk. Amazon Kinesis Data Firehose can also convert the incoming data to Apache Parquet or Apache ORC format before storing it in Amazon S3. This can reduce the storage cost and improve the performance of analytical queries on the data. Amazon Kinesis Data Firehose supports various data sources, such as Amazon Kinesis Data Streams, Amazon Managed Streaming for Apache Kafka, AWS IoT, and custom applications. Amazon Kinesis Data Firehose can also apply data transformation and compression using AWS Lambda functions.
AWSDMS is not a valid service name. AWS Database Migration Service (AWS DMS) is a service that can migrate data from various sources to various targets, but it does not support streaming data or Parquet format.
Amazon Kinesis Data Streams is a service that can ingest and process streaming data in real time, but it does not store the data in any destination. Amazon Kinesis Data Streams can be integrated with Amazon Kinesis Data Firehose to store the data in Parquet format.
Amazon Kinesis Data Analytics is a service that can analyze streaming data using SQL or Apache Flink, but it does not store the data in any destination. Amazon Kinesis Data Analytics can be integrated with Amazon Kinesis Data Firehose to store the data in Parquet format. References:
Amazon Kinesis Data Firehose - Amazon Web Services
What Is Amazon Kinesis Data Firehose? - Amazon Kinesis Data Firehose
Amazon Kinesis Data Firehose FAQs - Amazon Web Services

NEW QUESTION # 67

A beauty supply store wants to understand some characteristics of visitors to the store. The store has security video recordings from the past several years. The store wants to generate a report of hourly visitors from the recordings. The report should group visitors by hair style and hair color.

Which solution will meet these requirements with the LEAST amount of effort?

- A. Use an object detection algorithm to identify a visitor's hair in video frames. Pass the identified hair to an XGBoost algorithm to determine hair style and hair color.
- B. Use a semantic segmentation algorithm to identify a visitor's hair in video frames. Pass the identified hair to an XGBoost algorithm to determine hair style and hair.
- C. Use an object detection algorithm to identify a visitor's hair in video frames. Pass the identified hair to an ResNet-50 algorithm to determine hair style and hair color.
- D. Use a semantic segmentation algorithm to identify a visitor's hair in video frames. Pass the identified hair to an ResNet-50 algorithm to determine hair style and hair color.

Answer: D

Explanation:

The solution that will meet the requirements with the least amount of effort is to use a semantic segmentation algorithm to identify a visitor's hair in video frames, and pass the identified hair to an ResNet-50 algorithm to determine hair style and hair color. This solution can leverage the existing Amazon SageMaker algorithms and frameworks to perform the tasks of hair segmentation and classification.

Semantic segmentation is a computer vision technique that assigns a class label to every pixel in an image, such that pixels with the same label share certain characteristics. Semantic segmentation can be used to identify and isolate different objects or regions in an image, such as a visitor's hair in a video frame. Amazon SageMaker provides a built-in semantic segmentation algorithm that can train and deploy models for semantic segmentation tasks. The algorithm supports three state-of-the-art network architectures: Fully Convolutional Network (FCN), Pyramid Scene Parsing Network (PSP), and DeepLab v3. The algorithm can also use pre-trained or randomly initialized ResNet-50 or ResNet-101 as the backbone network. The algorithm can be trained using P2/P3 type Amazon EC2 instances in single machine configurations1.

ResNet-50 is a convolutional neural network that is 50 layers deep and can classify images into 1000 object categories. ResNet-50 is trained on more than a million images from the ImageNet database and can achieve high accuracy on various image recognition tasks. ResNet-50 can be used to determine hair style and hair color from the segmented hair regions in the video frames. Amazon SageMaker provides a built-in image classification algorithm that can use ResNet-50 as the network architecture. The algorithm can also perform transfer learning by fine-tuning the pre-trained ResNet-50 model with new data. The algorithm can be trained using P2/P3 type Amazon EC2 instances in single or multiple machine configurations2.

The other options are either less effective or more complex to implement. Using an object detection algorithm to identify a visitor's hair in video frames would not segment the hair at the pixel level, but only draw bounding boxes around the hair regions. This could result in inaccurate or incomplete hair segmentation, especially if the hair is occluded or has irregular shapes. Using an XGBoost algorithm to determine hair style and hair color would require transforming the segmented hair images into numerical features, which could lose some information or introduce noise. XGBoost is also not designed for image classification tasks, and may not achieve high accuracy or performance.

References:

1: Semantic Segmentation Algorithm - Amazon SageMaker
2: Image Classification Algorithm - Amazon SageMaker

NEW QUESTION # 68

An interactive online dictionary wants to add a widget that displays words used in similar contexts. A Machine Learning Specialist is asked to provide word features for the downstream nearest neighbor model powering the widget.

What should the Specialist do to meet these requirements?

- A. Create one-hot word encoding vectors.
- B. Produce a set of synonyms for every word using Amazon Mechanical Turk.
- C. Download word embedding's pre-trained on a large corpus.
- D. Create word embedding factors that store edit distance with every other word.

Answer: C

Explanation:

Word embeddings are a type of dense representation of words, which encode semantic meaning in a vector form. These embeddings are typically pre-trained on a large corpus of text data, such as a large set of books, news articles, or web pages, and

capture the context in which words are used. Word embeddings can be used as features for a nearest neighbor model, which can be used to find words used in similar contexts. Downloading pre-trained word embeddings is a good way to get started quickly and leverage the strengths of these representations, which have been optimized on a large amount of data. This is likely to result in more accurate and reliable features than other options like one-hot encoding, edit distance, or using Amazon Mechanical Turk to produce synonyms.

NEW QUESTION # 69
A Machine Learning Specialist works for a credit card processing company and needs to predict which transactions may be fraudulent in near-real time. Specifically, the Specialist must train a model that returns the probability that a given transaction may be fraudulent How should the Specialist frame this business problem'?

- A. Streaming classification
- B. Binary classification
- C. Multi-category classification
- D. Regression classification

Answer: A

NEW QUESTION # 70
A financial services company wants to adopt Amazon SageMaker as its default data science environment. The company's data scientists run machine learning (ML) models on confidential financial data. The company is worried about data egress and wants an ML engineer to secure the environment.
Which mechanisms can the ML engineer use to control data egress from SageMaker? (Choose three.)

- A. Use SCPs to restrict access to SageMaker.
- B. Enable network isolation for training jobs and models.
- C. Disable root access on the SageMaker notebook instances.
- D. Restrict notebook presigned URLs to specific IPs used by the company.
- E. Connect to SageMaker by using a VPC interface endpoint powered by AWS PrivateLink.
- F. Protect data with encryption at rest and in transit. Use AWS Key Management Service (AWS KMS) to manage encryption keys.

Answer: B,E,F

Explanation:
Explanation
To control data egress from SageMaker, the ML engineer can use the following mechanisms:
Connect to SageMaker by using a VPC interface endpoint powered by AWS PrivateLink. This allows the ML engineer to access SageMaker services and resources without exposing the traffic to the public internet. This reduces the risk of data leakage and unauthorized access1 Enable network isolation for training jobs and models. This prevents the training jobs and models from accessing the internet or other AWS services. This ensures that the data used for training and inference is not exposed to external sources2 Protect data with encryption at rest and in transit. Use AWS Key Management Service (AWS KMS) to manage encryption keys. This enables the ML engineer to encrypt the data stored in Amazon S3 buckets, SageMaker notebook instances, and SageMaker endpoints. It also allows the ML engineer to encrypt the data in transit between SageMaker and other AWS services. This helps protect the data from unauthorized access and tampering3 The other options are not effective in controlling data egress from SageMaker:
Use SCPs to restrict access to SageMaker. SCPs are used to define the maximum permissions for an organization or organizational unit (OU) in AWS Organizations. They do not control the data egress from SageMaker, but rather the access to SageMaker itself4 Disable root access on the SageMaker notebook instances. This prevents the users from installing additional packages or libraries on the notebook instances. It does not prevent the data from being transferred out of the notebook instances.
Restrict notebook presigned URLs to specific IPs used by the company. This limits the access to the notebook instances from certain IP addresses. It does not prevent the data from being transferred out of the notebook instances.
References:
1: Amazon SageMaker Interface VPC Endpoints (AWS PrivateLink) - Amazon SageMaker
2: Network Isolation - Amazon SageMaker
3: Encrypt Data at Rest and in Transit - Amazon SageMaker
4: Using Service Control Policies - AWS Organizations
5: Disable Root Access - Amazon SageMaker
6: Create a Presigned Notebook Instance URL - Amazon SageMaker

NEW QUESTION # 71
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