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The AWS Certified Machine Learning - Specialty certification exam covers a wide range of topics, including exploring data, building and training ML models, deploying models, and managing and optimizing ML solutions. MLS-C01 exam also tests the candidate's knowledge of machine learning algorithms, deep learning, neural networks, and other related technologies. Passing this certification exam requires a deep understanding of AWS ML services, including Amazon SageMaker, Amazon Rekognition, and Amazon Comprehend.

The AWS Certified Machine Learning - Specialty certification exam covers a variety of topics, including data engineering, data preprocessing, modeling, deep learning, and deployment. Candidates will be tested on their ability to understand and use various AWS services, such as Amazon SageMaker, AWS Lambda, AWS Glue, and AWS Kinesis, among others. They will also need to demonstrate their expertise in designing and implementing machine learning algorithms, as well as their ability to troubleshoot and optimize machine learning models.

To become an AWS Certified Machine Learning - Specialty, candidates must pass a two-hour, multiple-choice exam that consists of 65 questions. MLS-C01 Exam is designed to test the candidate's knowledge and skills in machine learning theory, as well as their practical experience in deploying machine learning models on AWS. Candidates must score at least 750 out of a possible 1000 points to pass the exam.

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MLS-C01 Test Dumps: AWS Certified Machine Learning - Specialty & AWS Certified Machine Learning - Specialty Questions & Answers

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Amazon AWS Certified Machine Learning - Specialty Sample Questions (Q202-Q207):

NEW QUESTION # 202
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. Enable network isolation for training jobs and models.
- B. Restrict notebook presigned URLs to specific IPs used by the company.
- C. Protect data with encryption at rest and in transit. Use AWS Key Management Service (AWS KMS) to manage encryption keys.
- D. Disable root access on the SageMaker notebook instances.
- E. Use SCPs to restrict access to SageMaker.
- F. Connect to SageMaker by using a VPC interface endpoint powered by AWS PrivateLink.

Answer: A,C,F

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.
1: Amazon SageMaker Interface VPC Endpoints (AWS PrivateLink) - Amazon SageMaker
2: Network Isolation - Amazon SageMaker
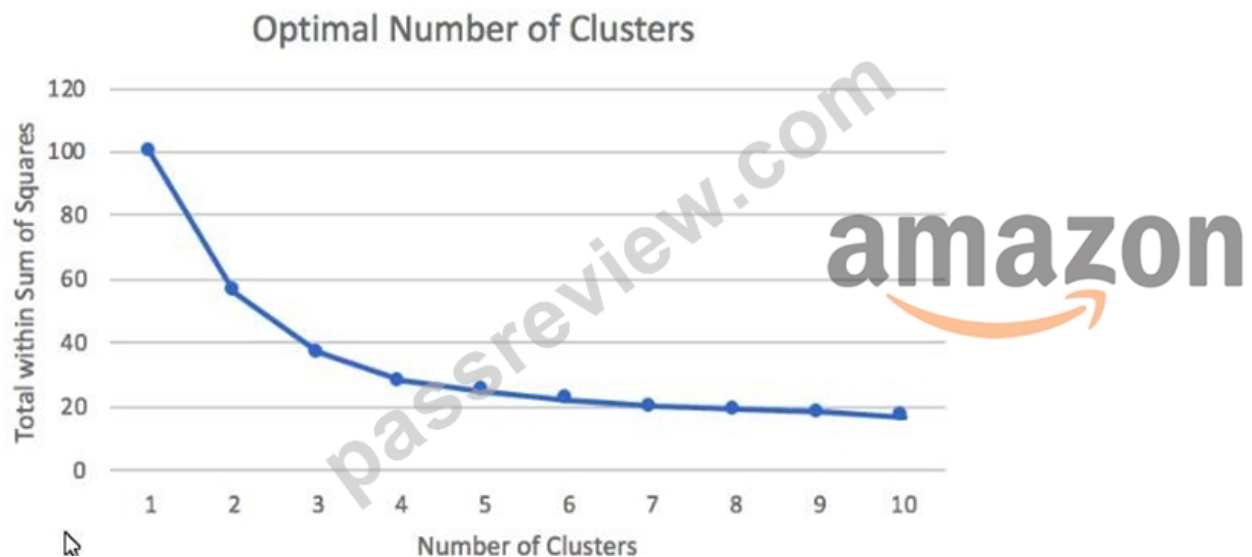3: Encrypt Data at Rest and in Transit - Amazon SageMaker
4: Using Service Control Policies - AWS Organizations
Disable Root Access - Amazon SageMaker
Create a Presigned Notebook Instance URL - Amazon SageMaker

NEW QUESTION # 203
A Machine Learning Specialist prepared the following graph displaying the results of k-means for k = [1:10]

Optimal Number of Clusters

Considering the graph, what is a reasonable selection for the optimal choice of k?

- A. 0
- B. 1
- C. 2
- D. 3

Answer: C

Explanation:
The elbow method is a technique that we use to determine the number of centroids (k) to use in a k-means clustering algorithm. In this method, we plot the within-cluster sum of squares (WCSS) against the number of clusters (k) and look for the point where the curve bends sharply. This point is called the elbow point and it indicates that adding more clusters does not improve the model significantly. The graph in the question shows that the elbow point is at k = 4, which means that 4 is a reasonable choice for the optimal number of clusters. References:
Elbow Method for optimal value of k in KMeans: A tutorial on how to use the elbow method with Amazon SageMaker.
K-Means Clustering: A video that explains the concept and benefits of k-means clustering.

NEW QUESTION # 204
A data science team is planning to build a natural language processing (NLP) application. The application's text preprocessing stage will include part-of-speech tagging and key phase extraction. The preprocessed text will be input to a custom classification algorithm that the data science team has already written and trained using Apache MXNet.
Which solution can the team build MOST quickly to meet these requirements?

- A. Use Amazon Comprehend for the part-of-speech tagging, key phase extraction, and classification tasks.
- B. Use an NLP library in Amazon SageMaker for the part-of-speech tagging. Use Amazon Comprehend for the key phase extraction. Use AWS Deep Learning Containers with Amazon SageMaker to build the custom classifier.
- C. Use Amazon Comprehend for the part-of-speech tagging and key phase extraction tasks. Use Amazon SageMaker built-in Latent Dirichlet Allocation (LDA) algorithm to build the custom classifier.
- D. Use Amazon Comprehend for the part-of-speech tagging and key phase extraction tasks. Use AWS Deep Learning Containers with Amazon SageMaker to build the custom classifier.

Answer: B

NEW QUESTION # 205
A company wants to predict the sale prices of houses based on available historical sales dat a. The target variable in the company's dataset is the sale price. The features include parameters such as the lot size, living area measurements, non-living area measurements, number of bedrooms, number of bathrooms, year built, and postal code. The company wants to use multi-variable linear regression to predict house sale prices.
Which step should a machine learning specialist take to remove features that are irrelevant for the analysis and reduce the model's complexity?

- A. Plot a histogram of the features and compute their standard deviation. Remove features with low variance.
- B. Plot a histogram of the features and compute their standard deviation. Remove features with high variance.
- C. Run a correlation check of all features against the target variable. Remove features with low target variable correlation scores.
- D. Build a heatmap showing the correlation of the dataset against itself. Remove features with low mutual correlation scores.

Answer: C

NEW QUESTION # 206

An ecommerce company sends a weekly email newsletter to all of its customers. Management has hired a team of writers to create additional targeted content. A data scientist needs to identify five customer segments based on age, income, and location. The customers' current segmentation is unknown. The data scientist previously built an XGBoost model to predict the likelihood of a customer responding to an email based on age, income, and location.

Why does the XGBoost model NOT meet the current requirements, and how can this be fixed?

- A. The XGBoost model provides a true/false binary output. Increase the number of classes the XGBoost model predicts to five classes to predict a segment.
- B. The XGBoost model is a supervised machine learning algorithm. Train a k-means model with K = 5 on the same dataset to predict a segment.
- C. The XGBoost model is a supervised machine learning algorithm. Train a k-Nearest-Neighbors (kNN) model with K = 5 on the same dataset to predict a segment.
- D. The XGBoost model provides a true/false binary output. Apply principal component analysis (PCA) with five feature dimensions to predict a segment.

Answer: B

Explanation:
The XGBoost model is a supervised machine learning algorithm, which means it requires labeled data to learn from. The customers' current segmentation is unknown, so there is no label to train the XGBoost model on. Moreover, the XGBoost model is designed for classification or regression tasks, not for clustering.
Clustering is a type of unsupervised machine learning, which means it does not require labeled data.
Clustering algorithms try to find natural groups or clusters in the data based on their similarity or distance. A common clustering algorithm is k-means, which partitions the data into K clusters, where each data point belongs to the cluster with the nearest mean. To meet the current requirements, the data scientist should train a k-means model with K = 5 on the same dataset to predict a segment for each customer. This way, the data scientist can identify five customer segments based on age, income, and location, without needing any labels.
References:
* What is XGBoost? - Amazon SageMaker
* What is Clustering? - Amazon SageMaker
* K-Means Algorithm - Amazon SageMaker

NEW QUESTION # 207

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