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Updated AWS Certified Machine Learning - Specialty Questions Cram - MLS-C01 Pdf Review & AWS Certified Machine Learning - Specialty Examboost Vce

The cost of registering for a certification AWS Certified Machine Learning - Specialty (MLS-C01) exam is quite expensive, ranging between \$100 and \$1000. After paying such an amount, the candidate is sure to be on a tight budget. LatestCram provides AWS Certified Machine Learning - Specialty (MLS-C01) preparation material at very low prices compared to other platforms. We also assure you that the amount will not be wasted and you will not have to pay for the AWS Certified Machine Learning - Specialty (MLS-C01) certification test for a second time.

The AWS Machine Learning Specialty certification is designed for developers and data scientists who want to enhance their skills in using machine learning via the AWS platform.

Amazon MLS-C01 Certification Exam is intended for individuals who have a deep understanding of machine learning concepts and technologies and have experience designing and deploying machine learning models on AWS. MLS-C01 exam covers a broad range of topics, including data preparation and feature engineering, model selection and evaluation, deep learning, and deploying machine learning models on AWS.

To become an AWS Certified Machine Learning - Specialty, individuals must have prior experience in ML and have completed relevant training or have equivalent practical experience. AWS Certified Machine Learning - Specialty certification is intended for individuals who have a deep understanding of ML concepts and have hands-on experience building and deploying ML models. Candidates must also be able to demonstrate their ability to work with complex datasets, develop ML models, and deploy them at scale.

Amazon AWS Certified Machine Learning - Specialty Sample Questions (Q126-Q131):

NEW QUESTION # 126

A Marketing Manager at a pet insurance company plans to launch a targeted marketing campaign on social media to acquire new customers. Currently, the company has the following data in Amazon Aurora:

- * Profiles for all past and existing customers
- * Profiles for all past and existing insured pets
- * Policy-level information
- * Premiums received
- * Claims paid

What steps should be taken to implement a machine learning model to identify potential new customers on social media?

- **A. Use clustering on customer profile data to understand key characteristics of consumer segments. Find similar profiles on social media.**
- B. Use a recommendation engine on customer profile data to understand key characteristics of consumer segments. Find similar profiles on social media.
- C. Use regression on customer profile data to understand key characteristics of consumer segments. Find similar profiles on social media.
- D. Use a decision tree classifier engine on customer profile data to understand key characteristics of consumer segments. Find similar profiles on social media.

Answer: A

Explanation:

Clustering is a machine learning technique that can group data points into clusters based on their similarity or proximity. Clustering can help discover the underlying structure and patterns in the data, as well as identify outliers or anomalies. Clustering can also be used for customer segmentation, which is the process of dividing customers into groups based on their characteristics, behaviors, preferences, or needs. Customer segmentation can help understand the key features and needs of different customer segments, as well as design and implement targeted marketing campaigns for each segment. In this case, the Marketing Manager at a pet insurance company plans to launch a targeted marketing campaign on social media to acquire new customers. To do this, the Manager can use clustering on customer profile data to understand the key characteristics of consumer segments, such as their demographics, pet types, policy preferences, premiums paid, claims made, etc. The Manager can then find similar profiles on social media, such as Facebook, Twitter, Instagram, etc., by using the cluster features as filters or keywords. The Manager can then target these potential new customers with personalized and relevant ads or offers that match their segment's needs and interests. This way, the Manager can implement a machine learning model to identify potential new customers on social media.

NEW QUESTION # 127

A company is planning a marketing campaign to promote a new product to existing customers. The company has data (or past promotions) that are similar. The company decides to try an experiment to send a more expensive marketing package to a smaller number of customers. The company wants to target the marketing campaign to customers who are most likely to buy the new product. The experiment requires that at least 90% of the customers who are likely to purchase the new product receive the marketing materials.

...company trains a model by using the linear learner algorithm in Amazon SageMaker. The model has a recall score of 80% and a precision of 75%.

...should the company retrain the model to meet these requirements?

- A. Set the `normalize_label` hyperparameter to true. Set the number of classes to 2.
- B. Use 90% of the historical data for training. Set the number of epochs to 20.
- **C. Set the `target_recall` hyperparameter to 90%. Set the `binary_classifier_model_selection_criteria` hyperparameter to `recall_at_target_precision`.**
- D. Set the `target_precision` hyperparameter to 90%. Set the `binary_classifier_model_selection_criteria` hyperparameter to `precision_at_target_recall`.

Answer: C

Explanation:

The best way to retrain the model to meet the requirements is to set the `target_recall` hyperparameter to 90% and set the `binary_classifier_model_selection_criteria` hyperparameter to `recall_at_target_precision`. This will instruct the linear learner algorithm to optimize the model for a high recall score, while maintaining a reasonable precision score. Recall is the proportion of actual positives that were identified correctly, which is important for the company's goal of reaching at least 90% of the customers who are likely to buy the new product¹. Precision is the proportion of positive identifications that were actually correct, which is also relevant for the company's budget and efficiency². By setting the `target_recall` to 90%, the algorithm will try to achieve a recall score of at least 90%, and by setting the `binary_classifier_model_selection_criteria` to `recall_at_target_precision`, the algorithm will select the model that has the highest recall score among those that have a precision score equal to or higher than the target precision³. The target precision is automatically set to the median of the precision scores of all the models trained in parallel⁴.

The other options are not correct or optimal, because they have the following drawbacks:

B: Setting the `target_precision` hyperparameter to 90% and setting the `binary_classifier_model_selection_criteria` hyperparameter to `precision_at_target_recall` will optimize the model for a high precision score, while maintaining a reasonable recall score. However, this is not aligned with the company's goal of reaching at least 90% of the customers who are likely to buy the new product, as precision does not reflect how well the model identifies the actual positives¹. Moreover, setting the `target_precision` to 90% might be too high and unrealistic for the dataset, as the current precision score is only 75%⁴.

C: Using 90% of the historical data for training and setting the number of epochs to 20 will not necessarily improve the recall score of the model, as it does not change the optimization objective or the model selection criteria. Moreover, using more data for training might reduce the amount of data available for validation, which is needed for selecting the best model among the ones trained in parallel³. The number of epochs is also not a decisive factor for the recall score, as it depends on the learning rate, the optimizer, and the convergence of the algorithm⁵.

D: Setting the `normalize_label` hyperparameter to true and setting the number of classes to 2 will not affect the recall score of the model, as these are irrelevant hyperparameters for binary classification problems. The `normalize_label` hyperparameter is only applicable for regression problems, as it controls whether the label is normalized to have zero mean and unit variance³. The number of classes hyperparameter is only applicable for multiclass classification problems, as it specifies the number of output classes³.

References:

1: Classification: Precision and Recall | Machine Learning | Google for Developers

2: Precision and recall - Wikipedia

3: Linear Learner Algorithm - Amazon SageMaker

4: How linear learner works - Amazon SageMaker

5: Getting hands-on with Amazon SageMaker Linear Learner - Pluralsight

NEW QUESTION # 128

A machine learning specialist is running an Amazon SageMaker endpoint using the built-in object detection algorithm on a P3 instance for real-time predictions in a company's production application. When evaluating the model's resource utilization, the specialist notices that the model is using only a fraction of the GPU.

Which architecture changes would ensure that provisioned resources are being utilized effectively?

- **A. Redeploy the model on an M5 instance. Attach Amazon Elastic Inference to the instance.**
- B. Redeploy the model as a batch transform job on an M5 instance.
- C. Deploy the model onto an Amazon Elastic Container Service (Amazon ECS) cluster using a P3 instance.
- D. Redeploy the model on a P3dn instance.

Answer: A

Explanation:

<https://aws.amazon.com/machine-learning/elastic-inference/>

NEW QUESTION # 129

A machine learning (ML) specialist wants to create a data preparation job that uses a PySpark script with complex window aggregation operations to create data for training and testing. The ML specialist needs to evaluate the impact of the number of features and the sample count on model performance.

Which approach should the ML specialist use to determine the ideal data transformations for the model?

- A. Add an Amazon SageMaker Experiments tracker to the script to capture key metrics. Run the script as an AWS Glue job.
- **B. Add an Amazon SageMaker Experiments tracker to the script to capture key parameters. Run the script as a SageMaker**

processing job.

- C. Add an Amazon SageMaker Debugger hook to the script to capture key metrics. Run the script as an AWS Glue job.
- D. Add an Amazon SageMaker Debugger hook to the script to capture key parameters. Run the script as a SageMaker processing job.

Answer: B

Explanation:

Amazon SageMaker Experiments is a service that helps track, compare, and evaluate different iterations of ML models. It can be used to capture key parameters such as the number of features and the sample count from a PySpark script that runs as a SageMaker processing job. A SageMaker processing job is a flexible and scalable way to run data processing workloads on AWS, such as feature engineering, data validation, model evaluation, and model interpretation.

References:

Amazon SageMaker Experiments

Process Data and Evaluate Models

NEW QUESTION # 130

A Machine Learning Specialist needs to move and transform data in preparation for training. Some of the data needs to be processed in near-real time and other data can be moved hourly. There are existing Amazon EMR MapReduce jobs to clean and feature engineering to perform on the data. Which of the following services can feed data to the MapReduce jobs? (Select TWO)

- A. Amazon ES
- B. Amazon Kinesis
- C. Amazon Athena
- D. AWS Data Pipeline
- E. AWS DMS

Answer: B,D

Explanation:

Amazon Kinesis and AWS Data Pipeline are two services that can feed data to the Amazon EMR MapReduce jobs. Amazon Kinesis is a service that can ingest, process, and analyze streaming data in real time. Amazon Kinesis can be integrated with Amazon EMR to run MapReduce jobs on streaming data sources, such as web logs, social media, IoT devices, and clickstreams. Amazon Kinesis can handle data that needs to be processed in near-real time, such as for anomaly detection, fraud detection, or dashboarding. AWS Data Pipeline is a service that can orchestrate and automate data movement and transformation across various AWS services and on-premises data sources. AWS Data Pipeline can be integrated with Amazon EMR to run MapReduce jobs on batch data sources, such as Amazon S3, Amazon RDS, Amazon DynamoDB, and Amazon Redshift. AWS Data Pipeline can handle data that can be moved hourly, such as for data warehousing, reporting, or machine learning.

AWS DMS 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 MapReduce jobs.

Amazon Athena is a service that can query data stored in Amazon S3 using standard SQL, but it does not feed data to Amazon EMR or run MapReduce jobs.

Amazon ES is a service that provides a fully managed Elasticsearch cluster, which can be used for search, analytics, and visualization, but it does not feed data to Amazon EMR or run MapReduce jobs. References:

Using Amazon Kinesis with Amazon EMR - Amazon EMR

AWS Data Pipeline - Amazon Web Services

Using AWS Data Pipeline to Run Amazon EMR Jobs - AWS Data Pipeline

NEW QUESTION # 131

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