

AWS-Certified-Machine-Learning-Specialty Guaranteed Questions Answers & Reliable AWS-Certified-Machine-Learning-Specialty Test Sims

AWS Certified Machine Learning Specialty Questions And Answers 2022

What are Amazon Kinesis Video Streams? - Correct Answer- Amazon Kinesis Video Streams can be used to securely stream live video from devices to the AWS Cloud or build applications for real-time video processing and batch-oriented video analytics (ML, playback, and other processing). Kinesis Video Streams can also be used to watch our video streams in real time as they are received in the cloud.

What is Amazon SageMaker Batch Transform? - Correct Answer- To preprocess or get inferences for an entire dataset, use Batch Transform. We use Batch Transform when we need to work with large datasets, process datasets quickly, or have sub-second latency. We use preprocessing to remove noise or bias from our dataset that interferes with training or inference. We use Batch Transform for inference when we don't need a persistent endpoint. For example, we can use Batch Transform to compare production variants that deploy different models.

What is Keras? - Correct Answer- Keras is an open-source neural-network library written in Python. It is capable of running on top of TensorFlow, Microsoft Cognitive Toolkit, Theano, or PlaidML. Designed to enable fast experimentation with deep neural networks, it focuses on being user-friendly, modular, and extensible.

What are the three stages of Amazon SageMaker? - Correct Answer- Build (preprocessing, Amazon SageMaker Ground Truth, and notebooks) - Train (Using built-in and custom algorithms, hyperparameter tuning, notebooks, and infrastructure) - Deploy (Real-time and batch deployments, notebooks, infrastructure, and Amazon SageMaker Neo)

What command is used to move data from an Amazon Redshift cluster to Amazon S3 using AWS glue? - Correct Answer- 'UNLOAD' - Unloads the result of a query to one or more text files on Amazon S3.

What is Gluon? - Correct Answer- Gluon is a clear, concise, and simple API for deep learning. It makes it easy to prototype, build, and train deep learning models without sacrificing training speed.

What corrective actions can be taken when a model is underfitting the training data?

- Correct Answer- Improve performance due to insufficient data by:
 - Increasing the amount of training data examples.
 - Increasing the number of passes on the existing training data.
 - Add new domain-specific features.
 - Add more Cartesian products.
 - Change the types of feature processing (e.g. increase n-grams size).
 - Decrease the amount of regularization used.

What are some use cases for Amazon Transcribe?

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To qualify for this certification, you must have a solid understanding of the AWS platform and its machine learning services, as well as a working knowledge of programming languages such as Python, R, or Java. Additionally, you should have experience in designing, training, and deploying machine learning models using AWS services such as Amazon SageMaker, Amazon Comprehend, Amazon Rekognition, and Amazon Polly.

Amazon MLS-C01 exam consists of 65 multiple-choice and multiple-response questions that must be completed within 170 minutes. AWS-Certified-Machine-Learning-Specialty Exam is available in English, Japanese, Korean, and Simplified Chinese. Candidates who pass the exam will receive the AWS Certified Machine Learning - Specialty certification, which is valid for three years.

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Recommended Experience

Before registering for the AWS Certified Machine Learning – Specialty exam, the applicant should ensure meeting some prerequisites as stated by the vendor. First, working experience of 1-2 years in running ML workloads as well as their development and architecting on AWS cloud is a must for the candidate. Moreover, it is recommended to have practical skills in executing the hyperparameter optimization, deep learning and ML frameworks, and operational and model-training best practices for AWS Machine learning.

Amazon AWS Certified Machine Learning - Specialty Sample Questions (Q316-Q321):

NEW QUESTION # 316

A credit card company wants to identify fraudulent transactions in real time. A data scientist builds a machine learning model for this purpose. The transactional data is captured and stored in Amazon S3. The historic data is already labeled with two classes: fraud (positive) and fair transactions (negative). The data scientist removes all the missing data and builds a classifier by using the XGBoost algorithm in Amazon SageMaker. The model produces the following results:

- * True positive rate (TPR): 0.700
- * False negative rate (FNR): 0.300
- * True negative rate (TNR): 0.977
- * False positive rate (FPR): 0.023
- * Overall accuracy: 0.949

Which solution should the data scientist use to improve the performance of the model?

- A. Apply the Synthetic Minority Oversampling Technique (SMOTE) on the majority class in the training dataset. Retrain the model with the updated training data.
- B. Undersample the minority class.
- C. Oversample the majority class.
- D. **Apply the Synthetic Minority Oversampling Technique (SMOTE) on the minority class in the training dataset. Retrain the model with the updated training data.**

Answer: D

Explanation:

Explanation

The solution that the data scientist should use to improve the performance of the model is to apply the Synthetic Minority Oversampling Technique (SMOTE) on the minority class in the training dataset, and retrain the model with the updated training data. This solution can address the problem of class imbalance in the dataset, which can affect the model's ability to learn from the rare but important positive class (fraud).

Class imbalance is a common issue in machine learning, especially for classification tasks. It occurs when one class (usually the positive or target class) is significantly underrepresented in the dataset compared to the other class (usually the negative or non-target class). For example, in the credit card fraud detection problem, the positive class (fraud) is much less frequent than the negative class (fair transactions). This can cause the model to be biased towards the majority class, and fail to capture the characteristics and patterns of the minority class. As a result, the model may have a high overall accuracy, but a low recall or true positive rate for the minority class, which means it misses many fraudulent transactions.

SMOTE is a technique that can help mitigate the class imbalance problem by generating synthetic samples for the minority class. SMOTE works by finding the k-nearest neighbors of each minority class instance, and randomly creating new instances along the line segments connecting them. This way, SMOTE can increase the number and diversity of the minority class instances, without

duplicating or losing any information. By applying SMOTE on the minority class in the training dataset, the data scientist can balance the classes and improve the model's performance on the positive class.

The other options are either ineffective or counterproductive. Applying SMOTE on the majority class would not balance the classes, but increase the imbalance and the size of the dataset. Undersampling the minority class would reduce the number of instances available for the model to learn from, and potentially lose some important information. Oversampling the majority class would also increase the imbalance and the size of the dataset, and introduce redundancy and overfitting.

References:

1: SMOTE for Imbalanced Classification with Python - Machine Learning Mastery

NEW QUESTION # 317

A Machine Learning Specialist is designing a system for improving sales for a company. The objective is to use the large amount of information the company has on users' behavior and product preferences to predict which products users would like based on the users' similarity to other users.

What should the Specialist do to meet this objective?

- A. Build a collaborative filtering recommendation engine with Apache Spark ML on Amazon EMR.
- B. Build a combinative filtering recommendation engine with Apache Spark ML on Amazon EMR
- C. Build a content-based filtering recommendation engine with Apache Spark ML on Amazon EMR
- D. Build a model-based filtering recommendation engine with Apache Spark ML on Amazon EMR

Answer: A

Explanation:

Many developers want to implement the famous Amazon model that was used to power the "People who bought this also bought these items" feature on Amazon.com. This model is based on a method called Collaborative Filtering. It takes items such as movies, books, and products that were rated highly by a set of users and recommending them to other users who also gave them high ratings. This method works well in domains where explicit ratings or implicit user actions can be gathered and analyzed.

Reference: <https://aws.amazon.com/blogs/big-data/building-a-recommendation-engine-with-spark-ml-on-amazon-emr-using-zeppelin/>

NEW QUESTION # 318

A company needs to quickly make sense of a large amount of data and gain insight from it. The data is in different formats, the schemas change frequently, and new data sources are added regularly. The company wants to use AWS services to explore multiple data sources, suggest schemas, and enrich and transform the data. The solution should require the least possible coding effort for the data flows and the least possible infrastructure management.

Which combination of AWS services will meet these requirements?

- A. Amazon EMR for data discovery, enrichment, and transformation
Amazon Athena for querying and analyzing the results in Amazon S3 using standard SQL Amazon QuickSight for reporting and getting insights
- B. AWS Glue for data discovery, enrichment, and transformation
Amazon Athena for querying and analyzing the results in Amazon S3 using standard SQL Amazon QuickSight for reporting and getting insights
- C. AWS Data Pipeline for data transfer
AWS Step Functions for orchestrating AWS Lambda jobs for data discovery, enrichment, and transformation Amazon Athena for querying and analyzing the results in Amazon S3 using standard SQL
- D. Amazon Kinesis Data Analytics for data ingestion
Amazon EMR for data discovery, enrichment, and transformation
Amazon Redshift for querying and analyzing the results in Amazon S3

Answer: B

Explanation:

Amazon QuickSight for reporting and getting insights

Explanation:

The best combination of AWS services to meet the requirements of data discovery, enrichment, transformation, querying, analysis, and reporting with the least coding and infrastructure management is AWS Glue, Amazon Athena, and Amazon QuickSight. These services are:

AWS Glue for data discovery, enrichment, and transformation. AWS Glue is a serverless data integration service that automatically

crawls, catalogs, and prepares data from various sources and formats. It also provides a visual interface called AWS Glue DataBrew that allows users to apply over 250 transformations to clean, normalize, and enrich data without writing code¹ Amazon Athena for querying and analyzing the results in Amazon S3 using standard SQL. Amazon Athena is a serverless interactive query service that allows users to analyze data in Amazon S3 using standard SQL. It supports a variety of data formats, such as CSV, JSON, ORC, Parquet, and Avro. It also integrates with AWS Glue Data Catalog to provide a unified view of the data sources and schemas² Amazon QuickSight for reporting and getting insights. Amazon QuickSight is a serverless business intelligence service that allows users to create and share interactive dashboards and reports. It also provides ML-powered features, such as anomaly detection, forecasting, and natural language queries, to help users discover hidden insights from their data³ The other options are not suitable because they either require more coding effort, more infrastructure management, or do not support the desired use cases.

For example:

Option A uses Amazon EMR for data discovery, enrichment, and transformation. Amazon EMR is a managed cluster platform that runs Apache Spark, Apache Hive, and other open-source frameworks for big data processing. It requires users to write code in languages such as Python, Scala, or SQL to perform data integration tasks. It also requires users to provision, configure, and scale the clusters according to their needs⁴ Option B uses Amazon Kinesis Data Analytics for data ingestion. Amazon Kinesis Data Analytics is a service that allows users to process streaming data in real time using SQL or Apache Flink. It is not suitable for data discovery, enrichment, and transformation, which are typically batch-oriented tasks. It also requires users to write code to define the data processing logic and the output destination⁵ Option D uses AWS Data Pipeline for data transfer and AWS Step Functions for orchestrating AWS Lambda jobs for data discovery, enrichment, and transformation. AWS Data Pipeline is a service that helps users move data between AWS services and on-premises data sources. AWS Step Functions is a service that helps users coordinate multiple AWS services into workflows. AWS Lambda is a service that lets users run code without provisioning or managing servers. These services require users to write code to define the data sources, destinations, transformations, and workflows. They also require users to manage the scalability, performance, and reliability of the data pipelines.

References:

- 1: AWS Glue - Data Integration Service - Amazon Web Services
- 2: Amazon Athena - Interactive SQL Query Service - AWS
- 3: Amazon QuickSight - Business Intelligence Service - AWS
- 4: Amazon EMR - Amazon Web Services
- 5: Amazon Kinesis Data Analytics - Amazon Web Services
- 6: AWS Data Pipeline - Amazon Web Services
- 7: AWS Step Functions - Amazon Web Services
- 8: AWS Lambda - Amazon Web Services

NEW QUESTION # 319

A company wants to detect credit card fraud. The company has observed that an average of 2% of credit card transactions are fraudulent. A data scientist trains a classifier on a year's worth of credit card transaction data.

The classifier needs to identify the fraudulent transactions. The company wants to accurately capture as many fraudulent transactions as possible.

Which metrics should the data scientist use to optimize the classifier? (Select TWO.)

- A. False positive rate
- B. **True positive rate**
- C. Accuracy
- D. Specificity
- E. F1 score

Answer: B,E

Explanation:

The F1 score is a measure of the harmonic mean of precision and recall, which are both important for fraud detection. Precision is the ratio of true positives to all predicted positives, and recall is the ratio of true positives to all actual positives. A high F1 score indicates that the classifier can correctly identify fraudulent transactions and avoid false negatives. The true positive rate is another name for recall, and it measures the proportion of fraudulent transactions that are correctly detected by the classifier. A high true positive rate means that the classifier can capture as many fraudulent transactions as possible.

Fraud Detection Using Machine Learning | Implementations | AWS Solutions Detect fraudulent transactions using machine learning with Amazon SageMaker | AWS Machine Learning Blog

1. Introduction - Reproducible Machine Learning for Credit Card Fraud Detection

NEW QUESTION # 320

A Machine Learning Specialist is building a convolutional neural network (CNN) that will classify 10 types of animals. The Specialist has built a series of layers in a neural network that will take an input image of an animal, pass it through a series of convolutional and pooling layers, and then finally pass it through a dense and fully connected layer with 10 nodes. The Specialist would like to get an output from the neural network that is a probability distribution of how likely it is that the input image belongs to each of the 10 classes. Which function will produce the desired output?

- A. Softmax
- B. Smooth L1 loss
- C. Dropout
- D. Rectified linear units (ReLU)

Answer: A

NEW QUESTION # 321

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