

Amazon AWS-Certified-Machine-Learning-Specialty Fragen und Antworten, AWS Certified Machine Learning - Specialty Prüfungsfragen



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>> AWS-Certified-Machine-Learning-Specialty Zertifizierungsfragen <<

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Amazon AWS Certified Machine Learning - Specialty AWS-Certified-Machine-Learning-Specialty Prüfungsfragen mit Lösungen (Q151-Q156):

151. Frage

A company ingests machine learning (ML) data from web advertising clicks into an Amazon S3 data lake.

Click data is added to an Amazon Kinesis data stream by using the Kinesis Producer Library (KPL). The data is loaded into the S3 data lake from the data stream by using an Amazon Kinesis Data Firehose delivery stream. As the data volume increases, an ML specialist notices that the rate of data ingested into Amazon S3 is relatively constant. There also is an increasing backlog of data for Kinesis Data Streams and Kinesis Data Firehose to ingest.

Which next step is MOST likely to improve the data ingestion rate into Amazon S3?

- A. Decrease the retention period for the data stream.
- **B. Increase the number of shards for the data stream.**
- C. Increase the number of S3 prefixes for the delivery stream to write to.
- D. Add more consumers using the Kinesis Client Library (KCL).

Antwort: B

Begründung:

Explanation

The data ingestion rate into Amazon S3 can be improved by increasing the number of shards for the data stream. A shard is the base throughput unit of a Kinesis data stream. One shard provides 1 MB/second data input and 2 MB/second data output. Increasing the number of shards increases the data ingestion capacity of the stream. This can help reduce the backlog of data for Kinesis Data Streams and Kinesis Data Firehose to ingest.

References:

Shard - Amazon Kinesis Data Streams

Scaling Amazon Kinesis Data Streams with AWS CloudFormation - AWS Big Data Blog

152. Frage

A company wants to classify user behavior as either fraudulent or normal. Based on internal research, a Machine Learning Specialist would like to build a binary classifier based on two features: age of account and transaction month. The class distribution for these features is illustrated in the figure provided.

Based on this information, which model would have the HIGHEST recall with respect to the fraudulent class?

- **A. Single Perceptron with sigmoidal activation function**
- B. Decision tree
- C. Naive Bayesian classifier
- D. Linear support vector machine (SVM)

Antwort: A

153. Frage

An e commerce company wants to launch a new cloud-based product recommendation feature for its web application. Due to data localization regulations, any sensitive data must not leave its on-premises data center, and the product recommendation model must be trained and tested using nonsensitive data only. Data transfer to the cloud must use IPsec. The web application is hosted on premises with a PostgreSQL database that contains all the data. The company wants the data to be uploaded securely to Amazon S3 each day for model retraining.

How should a machine learning specialist meet these requirements?

- **A. Use AWS Database Migration Service (AWS DMS) with table mapping to select PostgreSQL tables with no sensitive data through an SSL connection. Replicate data directly into Amazon S3.**
- B. Create an AWS Glue job to connect to the PostgreSQL DB instance. Ingest tables without sensitive data through an AWS Site-to-Site VPN connection directly into Amazon S3.
- C. Use PostgreSQL logical replication to replicate all data to PostgreSQL in Amazon EC2 through AWS Direct Connect with a VPN connection. Use AWS Glue to move data from Amazon EC2 to Amazon S3.

- D. Create an AWS Glue job to connect to the PostgreSQL DB instance. Ingest all data through an AWS Site-to-Site VPN connection into Amazon S3 while removing sensitive data using a PySpark job.

Antwort: A

Begründung:

The best option is to use AWS Database Migration Service (AWS DMS) with table mapping to select PostgreSQL tables with no sensitive data through an SSL connection. Replicate data directly into Amazon S3.

This option meets the following requirements:

- * It ensures that only nonsensitive data is transferred to the cloud by using table mapping to filter out the tables that contain sensitive data¹.
- * It uses IPsec to secure the data transfer by enabling SSL encryption for the AWS DMS endpoint².
- * It uploads the data to Amazon S3 each day for model retraining by using the ongoing replication feature of AWS DMS³.

The other options are not as effective or feasible as the option above. Creating an AWS Glue job to connect to the PostgreSQL DB instance and ingest data through an AWS Site-to-Site VPN connection directly into Amazon S3 is possible, but it requires more steps and resources than using AWS DMS. Also, it does not specify how to filter out the sensitive data from the tables. Creating an AWS Glue job to connect to the PostgreSQL DB instance and ingest all data through an AWS Site-to-Site VPN connection into Amazon S3 while removing sensitive data using a PySpark job is also possible, but it is more complex and error-prone than using AWS DMS. Also, it does not use IPsec as required. Using PostgreSQL logical replication to replicate all data to PostgreSQL in Amazon EC2 through AWS Direct Connect with a VPN connection, and then using AWS Glue to move data from Amazon EC2 to Amazon S3 is not feasible, because PostgreSQL logical replication does not support replicating only a subset of data⁴. Also, it involves unnecessary data movement and additional costs.

References:

- * Table mapping - AWS Database Migration Service
- * Using SSL to encrypt a connection to a DB instance - AWS Database Migration Service
- * Ongoing replication - AWS Database Migration Service
- * Logical replication - PostgreSQL

154. Frage

A large mobile network operating company is building a machine learning model to predict customers who are likely to unsubscribe from the service. The company plans to offer an incentive for these customers as the cost of churn is far greater than the cost of the incentive.

The model produces the following confusion matrix after evaluating on a test dataset of 100 customers:

Based on the model evaluation results, why is this a viable model for production?

- A. The precision of the model is 86%, which is less than the accuracy of the model.
- B. The model is 86% accurate and the cost incurred by the company as a result of false negatives is less than the false positives.
- C. The model is 86% accurate and the cost incurred by the company as a result of false positives is less than the false negatives.
- D. The precision of the model is 86%, which is greater than the accuracy of the model.

Antwort: C

Begründung:

Based on the model evaluation results, this is a viable model for production because the model is 86% accurate and the cost incurred by the company as a result of false positives is less than the false negatives. The accuracy of the model is the proportion of correct predictions out of the total predictions, which can be calculated by adding the true positives and true negatives and dividing by the total number of observations. In this case, the accuracy of the model is $(10 + 76) / 100 = 0.86$, which means that the model correctly predicted

86% of the customers' churn status. The cost incurred by the company as a result of false positives and false negatives is the loss or damage that the company suffers when the model makes incorrect predictions. A false positive is when the model predicts that a customer will churn, but the customer actually does not churn. A false negative is when the model predicts that a customer will not churn, but the customer actually churns. In this case, the cost of a false positive is the incentive that the company offers to the customer who is predicted to churn, which is a relatively low cost. The cost of a false negative is the revenue that the company loses when the customer churns, which is a relatively high cost. Therefore, the cost of a false positive is less than the cost of a false negative, and the company would prefer to have more false positives than false negatives.

The model has 10 false positives and 4 false negatives, which means that the company's cost is lower than if the model had more false negatives and fewer false positives.

155. Frage

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

Antwort: A

Begründung:
Explanation

156. Frage

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Gott ist gerecht, und jeder ist nicht perfekt. Wie wir alle wissen, ist der Wettbewerb in der IT-Branche sehr heftig. So jeder will die IT-Zertifizierung erhalten, um einen Wert zu erhöhen. Ich denke auch so. Aber es ist zu schwierig für mich. Glücklicherweise habe ich die Dumps zur Amazon AWS-Certified-Machine-Learning-Specialty Zertifizierung von ZertSoft im Internet gesehen. Dann brauche ich mir keine Sorgen zu machen. Die Fragenkataloge zur Amazon AWS-Certified-Machine-Learning-Specialty Prüfung von ZertSoft sind wirklich gut. Sie sind umfassend und zielgerichtet. Wenn Sie auch ein Mitglied der IT-Branche sind, fügen Sie schnell die Amazon AWS-Certified-Machine-Learning-Specialty Prüfung Fragenkataloge von ZertSoft in den Warenkorb hinzu. Zögern Sie nicht. Die Fragenkataloge zur Amazon AWS-Certified-Machine-Learning-Specialty Prüfung von ZertSoft sind Ihr bester Partner.

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