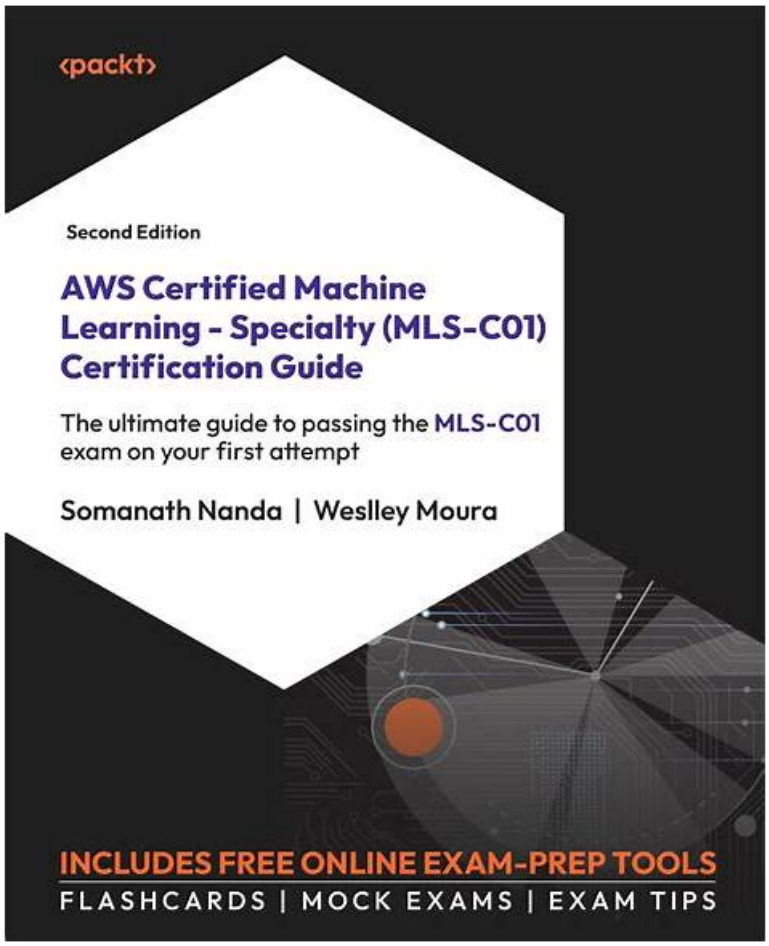
Pass Guaranteed Quiz 2025 Valid MLS-C01: AWS Certified Machine Learning - Specialty Exam Cram



P.S. Free 2025 Amazon MLS-C01 dumps are available on Google Drive shared by TrainingQuiz: https://drive.google.com/open?id=1PulIxyltmtZ7-dMEkMHm5-KqSRjAJXXq

Our MLS-C01 learning guide materials have won the favor of many customers by virtue of their high quality. Started when the user needs to pass the qualification test, choose the MLS-C01 real questions, they will not have any second or even third backup options, because they will be the first choice of our practice exam materials. Our MLS-C01 Practice Guide is devoted to research on which methods are used to enable users to pass the test faster. Therefore, through our unremitting efforts, our MLS-C01 real questions have a pass rate of 98% to 100%.

The benefit in Obtaining the AWS Certified Machine Learning - Specialty Certification

- Amazon MLS Certifications will provide opportunities to get a job easily in which they are interested in instead of wasting years and ending without getting any experience
- Amazon MLS Certification provides practical experience to candidates from all the aspects to be a proficient worker in the organization
- AWS Certified Machine Learning - Specialty will provide proven knowledge to use the tools to complete the task efficiently and cost effectively than the other non-certified professionals lack in doing so
- Amazon MLS certified candidates will be confident and stand different from others as their skills are more trained than non-certified professionals

The Amazon MLS-C01 Exam covers a range of topics related to machine learning on AWS, including data preparation, feature engineering, model selection and validation, machine learning algorithms, and deployment and operationalization of machine learning models. Candidates are also expected to have a good understanding of AWS services such as Amazon SageMaker, Amazon S3,

AWS Lambda, and Amazon DynamoDB, and be able to use these services to build and deploy machine learning applications. The MLS-C01 certification exam is a valuable credential for professionals who are looking to demonstrate their expertise in machine learning on AWS and advance their careers in this field.

>> MLS-C01 Exam Cram <<

100% Pass The Best Amazon - MLS-C01 Exam Cram

Everybody knows that Amazon is an influential company with high-end products and best-quality service. It will be a long and tough way to pass MLS-C01 exam test, especially for people who have no time to prepare the MLS-C01 Questions and answers. So choosing right MLS-C01 dumps torrent is very necessary and important for people who want to pass test at first attempt.

Amazon AWS-Certified-Machine-Learning-Specialty, also known as the AWS Certified Machine Learning - Specialty exam, is a certification program offered by Amazon Web Services (AWS) that validates an individual's knowledge and skills in designing, building, and deploying machine learning solutions on AWS. AWS Certified Machine Learning - Specialty certification is designed for professionals who are interested in pursuing a career in machine learning or data science and want to demonstrate their expertise and competency in this field.

Amazon AWS Certified Machine Learning - Specialty Sample Questions (Q112-Q117):

NEW QUESTION # 112
A Machine Learning Specialist is building a supervised model that will evaluate customers' satisfaction with their mobile phone service based on recent usage The model's output should infer whether or not a customer is likely to switch to a competitor in the next 30 days Which of the following modeling techniques should the Specialist use1?

- A. Anomaly detection
- B. Time-series prediction
- C. Regression
- D. Binary classification

Answer: C

NEW QUESTION # 113
A Data Scientist is building a linear regression model and will use resulting p-values to evaluate the statistical significance of each coefficient. Upon inspection of the dataset, the Data Scientist discovers that most of the features are normally distributed. The plot of one feature in the dataset is shown in the graphic.

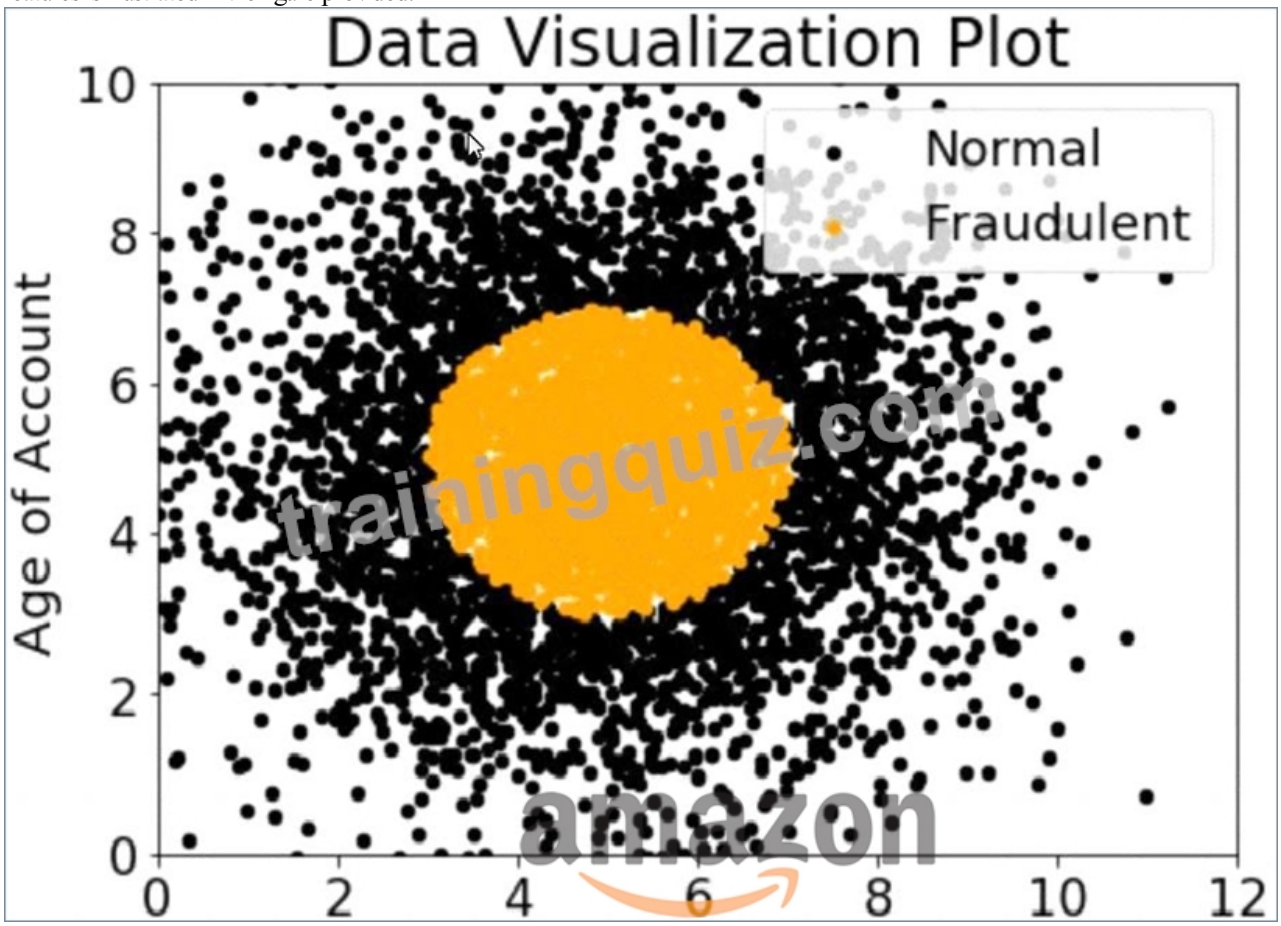
What transformation should the Data Scientist apply to satisfy the statistical assumptions of the linear regression model?

- A. Logarithmic transformation
- B. Polynomial transformation
- C. Exponential transformation
- D. Sinusoidal transformation

Answer: A

Explanation:
Explanation
The plot in the graphic shows a right-skewed distribution, which violates the assumption of normality for linear regression. To correct this, the Data Scientist should apply a logarithmic transformation to the feature.
This will help to make the distribution more symmetric and closer to a normal distribution, which is a key assumption for linear regression. References:
Linear Regression
Linear Regression with Amazon Machine Learning
Machine Learning on AWS

NEW QUESTION # 114
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 accuracy?

- A. Support vector machine (SVM) with non-linear kernel
- B. Long short-term memory (LSTM) model with scaled exponential linear unit (SELL))
- C. Logistic regression
- D. Single perceptron with tanh activation function

Answer: A

Explanation:
Explanation
Based on the figure provided, the data is not linearly separable. Therefore, a non-linear model such as SVM with a non-linear kernel would be the best choice. SVMs are particularly effective in high-dimensional spaces and are versatile in that they can be used for both linear and non-linear data. Additionally, SVMs have a high level of accuracy and are less prone to overfitting1 References: 1: https://docs.aws.amazon.com/sagemaker/latest/dg/svm.html

NEW QUESTION # 115
An ecommerce company has developed a XGBoost model in Amazon SageMaker to predict whether a customer will return a purchased item. The dataset is imbalanced. Only 5% of customers return items A data scientist must find the hyperparameters to capture as many instances of returned items as possible. The company has a small budget for compute.
How should the data scientist meet these requirements MOST cost-effectively?

- A. Tune all possible hyperparameters by using automatic model tuning (AMT). Optimize on {"HyperParameterTuningJobObjective": {"MetricName": "validation:f1", "Type": "Maximize"}}.
- B. Tune the csv_weight hyperparameter and the scale_pos_weight hyperparameter by using automatic model tuning (AMT). Optimize on {"HyperParameterTuningJobObjective": {"MetricName": "validation:f1", "Type": "Minimize"}}.
- C. Tune the csv_weight hyperparameter and the scale_pos_weight hyperparameter by using automatic model tuning (AMT). Optimize on {"HyperParameterTuningJobObjective": {"MetricName": "validation:f1", "Type": "Maximize"}}.
- D. Tune all possible hyperparameters by using automatic model tuning (AMT). Optimize on {"HyperParameterTuningJobObjective": {"MetricName": "validation:accuracy", "Type": "Maximize"}}

Answer: C

Explanation:
The best solution to meet the requirements is to tune the csv_weight hyperparameter and the scale_pos_weight hyperparameter by using automatic model tuning (AMT). Optimize on
{"HyperParameterTuningJobObjective": {"MetricName": "validation:f1", "Type": "Maximize"}}.
The csv_weight hyperparameter is used to specify the instance weights for the training data in CSV format.
This can help handle imbalanced data by assigning higher weights to the minority class examples and lower weights to the majority class examples. The scale_pos_weight hyperparameter is used to control the balance of positive and negative weights. It is the ratio of the number of negative class examples to the number of positive class examples. Setting a higher value for this hyperparameter can increase the importance of the positive class and improve the recall. Both of these hyperparameters can help the XGBoost model capture as many instances of returned items as possible.
Automatic model tuning (AMT) is a feature of Amazon SageMaker that automates the process of finding the best hyperparameter values for a machine learning model. AMT uses Bayesian optimization to search the hyperparameter space and evaluate the model performance based on a predefined objective metric. The objective metric is the metric that AMT tries to optimize by adjusting the hyperparameter values. For imbalanced classification problems, accuracy is not a good objective metric, as it can be misleading and biased towards the majority class. A better objective metric is the F1 score, which is the harmonic mean of precision and recall. The F1 score can reflect the balance between precision and recall and is more suitable for imbalanced data. The F1 score ranges from 0 to 1, where 1 is the best possible value. Therefore, the type of the objective should be "Maximize" to achieve the highest F1 score.
By tuning the csv_weight and scale_pos_weight hyperparameters and optimizing on the F1 score, the data scientist can meet the requirements most cost-effectively. This solution requires tuning only two hyperparameters, which can reduce the computation time and cost compared to tuning all possible hyperparameters. This solution also uses the appropriate objective metric for imbalanced classification, which can improve the model performance and capture more instances of returned items.

NEW QUESTION # 116
A retail company wants to update its customer support system. The company wants to implement automatic routing of customer claims to different queues to prioritize the claims by category.
Currently, an operator manually performs the category assignment and routing. After the operator classifies and routes the claim, the company stores the claim's record in a central database. The claim's record includes the claim's category.
The company has no data science team or experience in the field of machine learning (ML). The company's small development team needs a solution that requires no ML expertise.
Which solution meets these requirements?

- A. Export the database to a .csv file with two columns: claim_label and claim_text. Use the Amazon SageMaker Object2Vec algorithm and the .csv file to train a model. Use SageMaker to deploy the model to an inference endpoint. Develop a service in the application to use the inference endpoint to process incoming claims, predict the labels, and route the claims to the appropriate queue.
- B. Export the database to a .csv file with two columns: claim_label and claim_text. Use Amazon Comprehend custom classification and the .csv file to train the custom classifier. Develop a service in the application to use the Amazon Comprehend API to process incoming claims, predict the labels, and route the claims to the appropriate queue.
- C. Use Amazon Textract to process the database and automatically detect two columns: claim_label and claim_text. Use Amazon Comprehend custom classification and the extracted information to train the custom classifier. Develop a service in the application to use the Amazon Comprehend API to process incoming claims, predict the labels, and route the claims to

the appropriate queue.

- D. Export the database to a .csv file with one column: claim_text. Use the Amazon SageMaker Latent Dirichlet Allocation (LDA) algorithm and the .csv file to train a model. Use the LDA algorithm to detect labels automatically. Use SageMaker to deploy the model to an inference endpoint. Develop a service in the application to use the inference endpoint to process incoming claims, predict the labels, and route the claims to the appropriate queue.

Answer: B

Explanation:
Amazon Comprehend is a natural language processing (NLP) service that can analyze text and extract insights such as sentiment, entities, topics, and language. Amazon Comprehend also provides custom classification and custom entity recognition features that allow users to train their own models using their own data and labels. For the scenario of routing customer claims to different queues based on categories, Amazon Comprehend custom classification is a suitable solution. The custom classifier can be trained using a .csv file that contains the claim text and the claim label as columns. The custom classifier can then be used to process incoming claims and predict the labels using the Amazon Comprehend API. The predicted labels can be used to route the claims to the appropriate queue. This solution does not require any machine learning expertise or model deployment, and it can be easily integrated with the existing application.
The other options are not suitable because:
Option A: Amazon SageMaker Object2Vec is an algorithm that can learn embeddings of objects such as words, sentences, or documents. It can be used for tasks such as text classification, sentiment analysis, or recommendation systems. However, using this algorithm requires machine learning expertise and model deployment using SageMaker, which are not available for the company.
Option B: Amazon SageMaker Latent Dirichlet Allocation (LDA) is an algorithm that can discover the topics or themes in a collection of documents. It can be used for tasks such as topic modeling, document clustering, or text summarization. However, using this algorithm requires machine learning expertise and model deployment using SageMaker, which are not available for the company. Moreover, LDA does not provide labels for the topics, but rather a distribution of words for each topic, which may not match the existing categories of the claims.
Option C: Amazon Textract is a service that can extract text and data from scanned documents or images. It can be used for tasks such as document analysis, data extraction, or form processing. However, using this service is unnecessary and inefficient for the scenario, since the company already has the claim text and label in a database. Moreover, Amazon Textract does not provide custom classification features, so it cannot be used to train a custom classifier using the existing data and labels.
Amazon Comprehend Custom Classification
Amazon SageMaker Object2Vec
Amazon SageMaker Latent Dirichlet Allocation
Amazon Textract

NEW QUESTION # 117
.....

www.pdfvce.com □ and search for ➠ MLS-C01 □ for free download □MLS-C01 New Practice Materials

- Get Success in Amazon MLS-C01 Exam with Flying Colors □ □ www.real4dumps.com □ is best website to obtain ▷ MLS-C01 ◁ for free download □Valid MLS-C01 Test Labs
- study.stcs.edu.np, estrategiadedados.evag.com.br, formationenlignemaroc.com, blessingadeyemi2022.blogspot.com, myportal.utt.edu.tt, myportal.utt.edu.tt, myportal.utt.edu.tt, myportal.utt.edu.tt, myportal.utt.edu.tt, myportal.utt.edu.tt, myportal.utt.edu.tt, myportal.utt.edu.tt, myportal.utt.edu.tt, lms.ait.edu.za, study.stcs.edu.np, lms.ait.edu.za, lms.blogdu.de, www.stes.tyc.edu.tw, Disposable vapes

P.S. Free & New MLS-C01 dumps are available on Google Drive shared by TrainingQuiz: https://drive.google.com/open?id=1PulIxyltmtZ7-dMEkMHm5-KqSRjAJXXq