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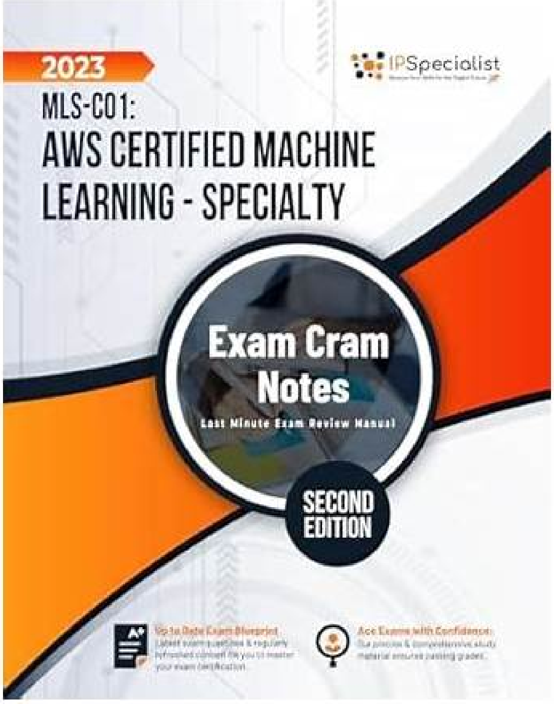

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Amazon AWS-Certified-Machine-Learning-Specialty (AWS Certified Machine Learning - Specialty) certification exam is designed for individuals who want to demonstrate their expertise in the implementation, deployment, and maintenance of machine learning solutions on AWS. AWS Certified Machine Learning - Specialty certification exam focuses on the concepts and best practices of machine learning, data preparation, model building, and operationalization on the AWS platform.

Amazon AWS Certified Machine Learning - Specialty Sample Questions (Q244-Q249):

NEW QUESTION # 244
A Machine Learning Specialist is building a logistic regression model that will predict whether or not a person will order a pizz a. The Specialist is trying to build the optimal model with an ideal classification threshold.
What model evaluation technique should the Specialist use to understand how different classification thresholds will impact the model's performance?

- A. Receiver operating characteristic (ROC) curve
- B. Root Mean Square Error (RM&)
- C. Misclassification rate
- D. L1 norm

Answer: A

Explanation:
A receiver operating characteristic (ROC) curve is a model evaluation technique that can be used to understand how different classification thresholds will impact the model's performance. A ROC curve plots the true positive rate (TPR) against the false positive rate (FPR) for various values of the classification threshold. The TPR, also known as sensitivity or recall, is the proportion of positive instances that are correctly classified as positive. The FPR, also known as the fall-out, is the proportion of negative instances that are incorrectly classified as positive. A ROC curve can show the trade-off between the TPR and the FPR for different thresholds, and help the Machine Learning Specialist to select the optimal threshold that maximizes the TPR and minimizes the FPR.
A ROC curve can also be used to compare the performance of different models by calculating the area under the curve (AUC), which is a measure of how well the model can distinguish between the positive and negative classes. A higher AUC indicates a better model

NEW QUESTION # 245
A retail company is selling products through a global online marketplace. The company wants to use machine learning (ML) to analyze customer feedback and identify specific areas for improvement. A developer has built a tool that collects customer reviews from the online marketplace and stores them in an Amazon S3 bucket. This process yields a dataset of 40 reviews. A data scientist building the ML models must identify additional sources of data to increase the size of the dataset.
Which data sources should the data scientist use to augment the dataset of reviews? (Choose three.)

- A. A publicly available collection of customer reviews
- B. Product sales revenue figures for the company
- C. A publicly available collection of news articles
- D. Instruction manuals for the company's products
- E. Emails exchanged by customers and the company's customer service agents
- F. Social media posts containing the name of the company or its products

Answer: A,E,F

Explanation:
The data sources that the data scientist should use to augment the dataset of reviews are those that contain relevant and diverse customer feedback about the company or its products. Emails exchanged by customers and the company's customer service agents can provide valuable insights into the issues and complaints that customers have, as well as the solutions and responses that the company offers. Social media posts containing the name of the company or its products can capture the opinions and sentiments of customers and potential customers, as well as their reactions to marketing campaigns and product launches. A publicly available collection of customer reviews can provide a large and varied sample of feedback from different online platforms and marketplaces, which can help to generalize the ML models and avoid bias.
References:
* Detect sentiment from customer reviews using Amazon Comprehend | AWS Machine Learning Blog
* How to Apply Machine Learning to Customer Feedback

NEW QUESTION # 246
A machine learning (ML) specialist must develop a classification model for a financial services company. A domain expert provides the dataset, which is tabular with 10,000 rows and 1,020 features. During exploratory data analysis, the specialist finds no missing values and a small percentage of duplicate rows. There are correlation scores of > 0.9 for 200 feature pairs. The mean value of each feature is similar to its 50th percentile.
Which feature engineering strategy should the ML specialist use with Amazon SageMaker?

- A. Drop the features with low correlation scores by using a Jupyter notebook.
- B. Apply dimensionality reduction by using the principal component analysis (PCA) algorithm.
- C. Concatenate the features with high correlation scores by using a Jupyter notebook.
- D. Apply anomaly detection by using the Random Cut Forest (RCF) algorithm.

Answer: B

Explanation:
The best feature engineering strategy for this scenario is to apply dimensionality reduction by using the principal component analysis (PCA) algorithm. PCA is a technique that transforms a large set of correlated features into a smaller set of uncorrelated features called principal components. This can help reduce the complexity and noise in the data, improve the performance and interpretability of the model, and avoid overfitting. Amazon SageMaker provides a built-in PCA algorithm that can be used to perform dimensionality reduction on tabular data. The ML specialist can use Amazon SageMaker to train and deploy the PCA model, and then use the output of the PCA model as the input for the classification model.
Dimensionality Reduction with Amazon SageMaker
Amazon SageMaker PCA Algorithm

NEW QUESTION # 247
An engraving company wants to automate its quality control process for plaques. The company performs the process before mailing each customized plaque to a customer. The company has created an Amazon S3 bucket that contains images of defects that should cause a plaque to be rejected. Low-confidence predictions must be sent to an internal team of reviewers who are using Amazon Augmented Al (Amazon A2I).
Which solution will meet these requirements?

- A. Use Amazon Rekognition for automatic processing. Use Amazon A2I with a private workforce option for manual review.
- B. Use Amazon Transcribe for automatic processing. Use Amazon A2I with a private workforce option for manual review.
- C. Use AWS Panorama for automatic processing Use Amazon A2I with Amazon Mechanical Turk for manual review
- D. Use Amazon Textract for automatic processing. Use Amazon A2I with Amazon Mechanical Turk for manual review.

Answer: A

Explanation:
Amazon Rekognition is a service that provides computer vision capabilities for image and video analysis, such as object, scene, and activity detection, face and text recognition, and custom label detection. Amazon Rekognition can be used to automate the quality control process for plaques by comparing the images of the plaques with the images of defects in the Amazon S3 bucket and returning a confidence score for each defect.
Amazon A2I is a service that enables human review of machine learning predictions, such as low-confidence predictions from Amazon Rekognition. Amazon A2I can be integrated with a private workforce option, which allows the engraving company to use its own internal team of reviewers to manually inspect the plaques that are flagged by Amazon Rekognition. This solution meets the requirements of automating the quality control process, sending low-confidence predictions to an internal team of reviewers, and using Amazon A2I for manual review. References:
* 1: Amazon Rekognition documentation
* 2: Amazon A2I documentation
* 3: Amazon Rekognition Custom Labels documentation
* 4: Amazon A2I Private Workforce documentation

NEW QUESTION # 248
An online store is predicting future book sales by using a linear regression model that is based on past sales dat a. The data includes duration, a numerical feature that represents the number of days that a book has been listed in the online store. A data scientist performs an exploratory data analysis and discovers that the relationship between book sales and duration is skewed and non-linear.
Which data transformation step should the data scientist take to improve the predictions of the model?

- A. Cartesian product transformation
- B. Quantile binning
- C. Normalization
- D. One-hot encoding

Answer: B

Explanation:
Quantile binning is a data transformation technique that can be used to handle skewed and non-linear numerical features. It divides the range of a feature into equal-sized bins based on the percentiles of the data. Each bin is assigned a numerical value that represents the midpoint of the bin. This way, the feature values are transformed into a more uniform distribution that can improve the performance of linear models. Quantile binning can also reduce the impact of outliers and noise in the data.
One-hot encoding, Cartesian product transformation, and normalization are not suitable for this scenario. One-hot encoding is used to transform categorical features into binary features. Cartesian product transformation is used to create new features by combining existing features. Normalization is used to scale numerical features to a standard range, but it does not change the shape of the distribution. References:
Data Transformations for Machine Learning
Quantile Binning Transformation

NEW QUESTION # 249

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