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Amazon AWS Certified Machine Learning - Specialty Sample Questions (Q203-Q208):

NEW QUESTION # 203

A company that manufactures mobile devices wants to determine and calibrate the appropriate sales price for its devices. The company is collecting the relevant data and is determining data features that it can use to train machine learning (ML) models. There are more than 1,000 features, and the company wants to determine the primary features that contribute to the sales price. Which techniques should the company use for feature selection? (Choose three.)

- A. Data scaling with standardization and normalization

- B. Correlation plot with heat maps
- C. Data augmentation
- D. Univariate selection
- E. Data binning
- F. Feature importance with a tree-based classifier

Answer: B,D,F

Explanation:

Feature selection is the process of selecting a subset of extracted features that are relevant and contribute to minimizing the error rate of a trained model. Some techniques for feature selection are:

* Correlation plot with heat maps: This technique visualizes the correlation between features using a color-coded matrix. Features that are highly correlated with each other or with the target variable can be identified and removed to reduce redundancy and noise.

* Univariate selection: This technique evaluates each feature individually based on a statistical test, such as chi-square, ANOVA, or mutual information, and selects the features that have the highest scores or p- values. This technique is simple and fast, but it does not consider the interactions between features.

* Feature importance with a tree-based classifier: This technique uses a tree-based classifier, such as random forest or gradient boosting, to rank the features based on their importance in splitting the nodes.

Features that have low importance scores can be dropped from the model. This technique can capture the non-linear relationships and interactions between features.

The other options are not techniques for feature selection, but rather for feature engineering, which is the process of creating, transforming, or extracting features from the original data. Feature engineering can improve the performance and interpretability of the model, but it does not reduce the number of features.

* Data scaling with standardization and normalization: This technique transforms the features to have a common scale, such as zero mean and unit variance, or a range between 0 and 1. This technique can help some algorithms, such as k-means or logistic regression, to converge faster and avoid numerical instability, but it does not change the number of features.

* Data binning: This technique groups the continuous features into discrete bins or categories based on some criteria, such as equal width, equal frequency, or clustering. This technique can reduce the noise and outliers in the data, and also create ordinal or nominal features that can be used for some algorithms, such as decision trees or naive Bayes, but it does not reduce the number of features.

* Data augmentation: This technique generates new data from the existing data by applying some transformations, such as rotation, flipping, cropping, or noise addition. This technique can increase the size and diversity of the data, and help prevent overfitting, but it does not reduce the number of features.

Feature engineering - Machine Learning Lens

Amazon SageMaker Autopilot now provides feature selection and the ability to change data types while creating an AutoML experiment Feature Selection in Machine Learning | Baeldung on Computer Science Feature Selection in Machine Learning: An easy Introduction

NEW QUESTION # 204

An employee found a video clip with audio on a company's social media feed. The language used in the video is Spanish. English is the employee's first language, and they do not understand Spanish. The employee wants to do a sentiment analysis.

What combination of services is the MOST efficient to accomplish the task?

- A. Amazon Transcribe, Amazon Translate, and Amazon Comprehend
- B. Amazon Transcribe, Amazon Translate and Amazon SageMaker BlazingText
- C. Amazon Transcribe, Amazon Translate, and Amazon SageMaker Neural Topic Model (NTM)
- D. Amazon Transcribe, Amazon Comprehend, and Amazon SageMaker seq2seq

Answer: A

Explanation:

<https://aws.amazon.com/getting-started/hands-on/analyze-sentiment-comprehend/>

NEW QUESTION # 205

A Machine Learning Specialist receives customer data for an online shopping website. The data includes demographics, past visits, and locality information. The Specialist must develop a machine learning approach to identify the customer shopping patterns, preferences and trends to enhance the website for better service and smart recommendations.

Which solution should the Specialist recommend?

- A. Collaborative filtering based on user interactions and correlations to identify patterns in the customer database

- B. Latent Dirichlet Allocation (LDA) for the given collection of discrete data to identify patterns in the customer database.
- C. Random Cut Forest (RCF) over random subsamples to identify patterns in the customer database
- D. A neural network with a minimum of three layers and random initial weights to identify patterns in the customer database

Answer: A

NEW QUESTION # 206

A data scientist must build a custom recommendation model in Amazon SageMaker for an online retail company. Due to the nature of the company's products, customers buy only 4-5 products every 5-10 years. So, the company relies on a steady stream of new customers. When a new customer signs up, the company collects data on the customer's preferences. Below is a sample of the data available to the data scientist.

□ How should the data scientist split the dataset into a training and test set for this use case?

- A. Shuffle all interaction data. Split off the last 10% of the interaction data for the test set.
- B. Identify the 10% of users with the least interaction data. Split off all interaction data from these users for the test set.
- **C. Identify the most recent 10% of interactions for each user. Split off these interactions for the test set.**
- D. Randomly select 10% of the users. Split off all interaction data from these users for the test set.

Answer: C

Explanation:

<https://aws.amazon.com/blogs/machine-learning/building-a-customized-recommender-system-in-amazon-sagemaker/>

NEW QUESTION # 207

A manufacturing company has a large set of labeled historical sales data. The manufacturer would like to predict how many units of a particular part should be produced each quarter.

Which machine learning approach should be used to solve this problem?

- A. Principal component analysis (PCA)
- B. Random Cut Forest (RCF)
- C. Logistic regression
- **D. Linear regression**

Answer: D

Explanation:

https://docs.aws.amazon.com/zh_tw/machine-learning/latest/dg/regression-model-insights.html

NEW QUESTION # 208

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