Quiz 2026 AWS-Certified-Machine-Learning-Specialty: Reliable AWS Certified Machine Learning - Specialty Reliable Exam Preparation

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Amazon AWS Certified Machine Learning - Specialty Sample Questions (Q174-Q179):

NEW QUESTION # 174
A city wants to monitor its air quality to address the consequences of air pollution A Machine Learning Specialist needs to forecast the air quality in parts per million of contaminates for the next 2 days in the city as this is a prototype, only daily data from the last year is available Which model is MOST likely to provide the best results in Amazon SageMaker?

- A. Use the Amazon SageMaker Linear Learner algorithm on the single time series consisting of the full yearof data with a predictor_type of regressor.

- B. Use the Amazon SageMaker k-Nearest-Neighbors (kNN) algorithm on the single time series consisting ofthe full year of data with a predictor_type of regressor.
- C. Use Amazon SageMaker Random Cut Forest (RCF) on the single time series consisting of the full year ofdata.
- D. Use the Amazon SageMaker Linear Learner algorithm on the single time series consisting of the full yearof data with a predictor_type of classifier.

Answer: B

Explanation:
The Amazon SageMaker k-Nearest-Neighbors (kNN) algorithm is a supervised learning algorithm that can perform both classification and regression tasks. It can also handle time series data, such as the air quality data in this case. The kNN algorithm works by finding the k most similar instances in the training data to a given query instance, and then predicting the output based on the average or majority of the outputs of the k nearest neighbors. The kNN algorithm can be configured to use different distance metrics, such as Euclidean or cosine, to measure the similarity between instances. To use the kNN algorithm on the single time series consisting of the full year of data, the Machine Learning Specialist needs to set the predictor_type parameter to regressor, as the output variable (air quality in parts per million of contaminates) is a continuous value. The kNN algorithm can then forecast the air quality for the next 2 days by finding the k most similar days in the past year and averaging their air quality values.
Amazon SageMaker k-Nearest-Neighbors (kNN) Algorithm - Amazon SageMaker Time Series Forecasting using k-Nearest Neighbors (kNN) in Python | by ...
Time Series Forecasting with k-Nearest Neighbors | by Nishant Malik ...

NEW QUESTION # 175
A company supplies wholesale clothing to thousands of retail stores. A data scientist must create a model that predicts the daily sales volume for each item for each store. The data scientist discovers that more than half of the stores have been in business for less than 6 months. Sales data is highly consistent from week to week.
Daily data from the database has been aggregated weekly, and weeks with no sales are omitted from the current dataset. Five years (100 MB) of sales data is available in Amazon S3.
Which factors will adversely impact the performance of the forecast model to be developed, and which actions should the data scientist take to mitigate them? (Choose two.)

- A. Only 100 MB of sales data is available in Amazon S3. Request 10 years of sales data, which would provide 200 MB of training data for the model.
- B. Sales data is aggregated by week. Request daily sales data from the source database to enable building a daily model.
- C. The sales data is missing zero entries for item sales. Request that item sales data from the source database include zero entries to enable building the model.
- D. The sales data does not have enough variance. Request external sales data from other industries to improve the model's ability to generalize.
- E. Detecting seasonality for the majority of stores will be an issue. Request categorical data to relate new stores with similar stores that have more historical data.

Answer: B,C

Explanation:
The factors that will adversely impact the performance of the forecast model are:
* Sales data is aggregated by week. This will reduce the granularity and resolution of the data, and make it harder to capture the daily patterns and variations in sales volume. The data scientist should request daily sales data from the source database to enable building a daily model, which will be more accurate and useful for the prediction task.
* Sales data is missing zero entries for item sales. This will introduce bias and incompleteness in the data, and make it difficult to account for the items that have no demand or are out of stock. The data scientist should request that item sales data from the source database include zero entries to enable building the model, which will be more robust and realistic.
The other options are not valid because:
* Detecting seasonality for the majority of stores will not be an issue, as sales data is highly consistent from week to week. Requesting categorical data to relate new stores with similar stores that have more historical data may not improve the model performance significantly, and may introduce unnecessary complexity and noise.
* The sales data does not need to have more variance, as it reflects the actual demand and behavior of the customers. Requesting external sales data from other industries will not improve the model's ability to generalize, but may introduce irrelevant and misleading information.
* Only 100 MB of sales data is not a problem, as it is sufficient to train a forecast model with Amazon S3 and Amazon Forecast. Requesting 10 years of sales data will not provide much benefit, as it may contain outdated and obsolete information that does not reflect the current market trends and customer preferences.

Amazon Forecast
Forecasting: Principles and Practice

NEW QUESTION # 176

A Marketing Manager at a pet insurance company plans to launch a targeted marketing campaign on social media to acquire new customers. Currently, the company has the following data in Amazon Aurora:
* Profiles for all past and existing customers
* Profiles for all past and existing insured pets
* Policy-level information
* Premiums received
* Claims paid
What steps should be taken to implement a machine learning model to identify potential new customers on social media?

- A. Use clustering on customer profile data to understand key characteristics of consumer segments. Find similar profiles on social media
- B. Use a recommendation engine on customer profile data to understand key characteristics of consumer segments. Find similar profiles on social media.
- C. Use a decision tree classifier engine on customer profile data to understand key characteristics of consumer segments. Find similar profiles on social media.
- D. Use regression on customer profile data to understand key characteristics of consumer segments. Find similar profiles on social media

Answer: B

NEW QUESTION # 177

A Machine Learning Specialist works for a credit card processing company and needs to predict which transactions may be fraudulent in near-real time. Specifically, the Specialist must train a model that returns the probability that a given transaction may be fraudulent How should the Specialist frame this business problem'?

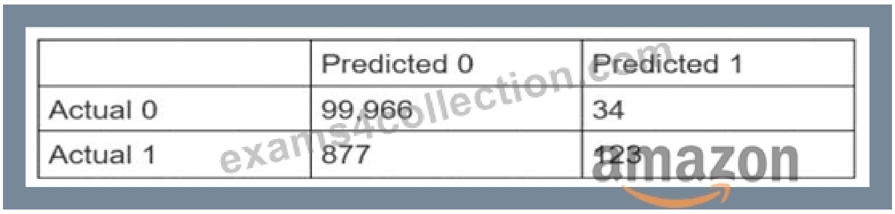
- A. Regression classification
- B. Multi-category classification
- C. Streaming classification
- D. Binary classification

Answer: D

Explanation:
Binary classification is a type of supervised learning problem where the goal is to predict a categorical label that has only two possible values, such as Yes or No, True or False, Positive or Negative. In this case, the label is whether a transaction is fraudulent or not, which is a binary outcome. Binary classification can be used to estimate the probability of an observation belonging to a certain class, such as the probability of a transaction being fraudulent. This can help the business to make decisions based on the risk level of each transaction. References:
Binary Classification - Amazon Machine Learning
AWS Certified Machine Learning - Specialty Sample Questions

NEW QUESTION # 178

A Data Scientist is developing a machine learning model to classify whether a financial transaction is fraudulent. The labeled data available for training consists of 100,000 non-fraudulent observations and 1,000 fraudulent observations.
The Data Scientist applies the XGBoost algorithm to the data, resulting in the following confusion matrix when the trained model is applied to a previously unseen validation dataset. The accuracy of the model is
99.1%, but the Data Scientist has been asked to reduce the number of false negatives.



	Predicted 0	Predicted 1
Actual 0	99,966	34
Actual 1	877	123

Which combination of steps should the Data Scientist take to reduce the number of false positive predictions by the model? (Select TWO.)

- A. Change the XGBoost eval_metric parameter to optimize based on rmse instead of error.
- B. Change the XGBoost evaljnetric parameter to optimize based on AUC instead of error.
- C. Increase the XGBoost max_depth parameter because the model is currently underfitting the data.
- D. Increase the XGBoost scale_pos_weight parameter to adjust the balance of positive and negative weights.
- E. Decrease the XGBoost max_depth parameter because the model is currently overfitting the data.

Answer: B,D

Explanation:
Explanation
The XGBoost algorithm is a popular machine learning technique for classification problems. It is based on the idea of boosting, which is to combine many weak learners (decision trees) into a strong learner (ensemble model).
The XGBoost algorithm can handle imbalanced data by using the scale_pos_weight parameter, which controls the balance of positive and negative weights in the objective function. A typical value to consider is the ratio of negative cases to positive cases in the data. By increasing this parameter, the algorithm will pay more attention to the minority class (positive) and reduce the number of false negatives.
The XGBoost algorithm can also use different evaluation metrics to optimize the model performance.
The default metric is error, which is the misclassification rate. However, this metric can be misleading for imbalanced data, as it does not account for the different costs of false positives and false negatives.
A better metric to use is AUC, which is the area under the receiver operating characteristic (ROC) curve. The ROC curve plots the true positive rate against the false positive rate for different threshold values. The AUC measures how well the model can distinguish between the two classes, regardless of the threshold. By changing the eval_metric parameter to AUC, the algorithm will try to maximize the AUC score and reduce the number of false negatives.
Therefore, the combination of steps that should be taken to reduce the number of false negatives are to increase the scale_pos_weight parameter and change the eval_metric parameter to AUC.
References:
XGBoost Parameters
XGBoost for Imbalanced Classification

NEW QUESTION # 179

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