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The Amazon MLS-C01 Exam covers a wide range of topics related to machine learning, including data preparation, feature engineering, model selection and evaluation, and deployment. It also focuses on AWS-specific concepts such as SageMaker, AWS Deep Learning AMIs, and AWS Glue. The AWS Certified Machine Learning - Specialty certification exam is intended for individuals with at least one year of experience in building and deploying machine learning models on AWS.

Amazon AWS Certified Machine Learning - Specialty Sample Questions

(Q299-Q304):

NEW QUESTION # 299

A data scientist is working on a public sector project for an urban traffic system. While studying the traffic patterns, it is clear to the data scientist that the traffic behavior at each light is correlated, subject to a small stochastic error term. The data scientist must model the traffic behavior to analyze the traffic patterns and reduce congestion.

How will the data scientist MOST effectively model the problem?

- A. The data scientist should obtain a correlated equilibrium policy by formulating this problem as a multi-agent reinforcement learning problem.
- B. Rather than finding an equilibrium policy, the data scientist should obtain accurate predictors of traffic flow by using historical data through a supervised learning approach.
- C. Rather than finding an equilibrium policy, the data scientist should obtain accurate predictors of traffic flow by using unlabeled simulated data representing the new traffic patterns in the city and applying an unsupervised learning approach.
- D. The data scientist should obtain the optimal equilibrium policy by formulating this problem as a single-agent reinforcement learning problem.

Answer: A

Explanation:
The data scientist should obtain a correlated equilibrium policy by formulating this problem as a multi-agent reinforcement learning problem. This is because:
Multi-agent reinforcement learning (MARL) is a subfield of reinforcement learning that deals with learning and coordination of multiple agents that interact with each other and the environment 1. MARL can be applied to problems that involve distributed decision making, such as traffic signal control, where each traffic light can be modeled as an agent that observes the traffic state and chooses an action (e.g., changing the signal phase) to optimize a reward function (e.g., minimizing the delay or congestion) 2.
A correlated equilibrium is a solution concept in game theory that generalizes the notion of Nash equilibrium. It is a probability distribution over the joint actions of the agents that satisfies the following condition: no agent can improve its expected payoff by deviating from the distribution, given that it knows the distribution and the actions of the other agents 3. A correlated equilibrium can capture the correlation among the agents' actions, which is useful for modeling the traffic behavior at each light that is subject to a small stochastic error term.
A correlated equilibrium policy is a policy that induces a correlated equilibrium in a MARL setting. It can be obtained by using various methods, such as policy gradient, actor-critic, or Q-learning algorithms, that can learn from the feedback of the environment and the communication among the agents 4. A correlated equilibrium policy can achieve a better performance than a Nash equilibrium policy, which assumes that the agents act independently and ignore the correlation among their actions 5.
Therefore, by obtaining a correlated equilibrium policy by formulating this problem as a MARL problem, the data scientist can most effectively model the traffic behavior and reduce congestion.
References:
Multi-Agent Reinforcement Learning
Multi-Agent Reinforcement Learning for Traffic Signal Control: A Survey Correlated Equilibrium Multi-Agent Actor-Critic for Mixed Cooperative-Competitive Environments Correlated Q-Learning

NEW QUESTION # 300

A Machine Learning Specialist deployed a model that provides product recommendations on a company's website. Initially, the model was performing very well and resulted in customers buying more products on average. However, within the past few months, the Specialist has noticed that the effect of product recommendations has diminished and customers are starting to return to their original habits of spending less. The Specialist is unsure of what happened, as the model has not changed from its initial deployment over a year ago.

Which method should the Specialist try to improve model performance?

- A. The model needs to be completely re-engineered because it is unable to handle product inventory changes.
- B. The model's hyperparameters should be periodically updated to prevent drift.
- C. The model should be periodically retrained from scratch using the original data while adding a regularization term to handle product inventory changes
- D. The model should be periodically retrained using the original training data plus new data as product inventory changes.

Answer: D

NEW QUESTION # 301
A real estate company wants to create a machine learning model for predicting housing prices based on a historical dataset. The dataset contains 32 features.
Which model will meet the business requirement?

- A. K-means
- B. Linear regression
- C. Principal component analysis (PCA)
- D. Logistic regression

Answer: B

NEW QUESTION # 302
A credit card company wants to build a credit scoring model to help predict whether a new credit card applicant will default on a credit card payment. The company has collected data from a large number of sources with thousands of raw attributes. Early experiments to train a classification model revealed that many attributes are highly correlated, the large number of features slows down the training speed significantly, and that there are some overfitting issues.
The Data Scientist on this project would like to speed up the model training time without losing a lot of information from the original dataset.
Which feature engineering technique should the Data Scientist use to meet the objectives?

- A. Run self-correlation on all features and remove highly correlated features
- B. Use an autoencoder or principal component analysis (PCA) to replace original features with new features
- C. Normalize all numerical values to be between 0 and 1
- D. Cluster raw data using k-means and use sample data from each cluster to build a new dataset

Answer: C

NEW QUESTION # 303
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.
Which combination of steps should the Data Scientist take to reduce the number of false positive predictions by the model? (Choose two.)

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

Answer: A,C

NEW QUESTION # 304

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