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Amazon MLS-C01 exam covers a wide range of topics related to machine learning, including data preparation, feature engineering, model selection, model training, and model deployment. It also assesses the candidate's understanding of AWS services such as Amazon SageMaker, Amazon Rekognition, Amazon Comprehend, and Amazon Translate, which are commonly used for machine learning applications.

To be eligible for the AWS Certified Machine Learning - Specialty certification, candidates must have a minimum of one-year experience in developing and deploying machine learning models on AWS. They must also have a solid understanding of AWS services, such as Amazon SageMaker, Amazon S3, and Amazon EC2, and have experience with programming languages such as Python and R. AWS-Certified-Machine-Learning-Specialty Exam itself consists of 65 multiple-choice and multiple-response questions, which must be completed within 3 hours. Candidates who pass the exam will receive an AWS Certified Machine Learning - Specialty certification, which is valid for three years.

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Amazon AWS-Certified-Machine-Learning-Specialty Exam is very popular in IT field. Having AWS-Certified-Machine-Learning-Specialty certificate is the best for those people who want to be promoted and is also a valid selection. And with the aid of AWS-Certified-Machine-Learning-Specialty certification test, you can improve your skills and master some useful techniques in your job so that you can finish your work better and demonstrate your great ability before other people. Only in this way can you get more development opportunities.

The AWS-Certified-Machine-Learning-Specialty Certification is ideal for professionals who want to advance their careers in the field of machine learning. AWS Certified Machine Learning - Specialty certification is recognized globally and is valued by employers who are looking for skilled machine learning professionals. AWS Certified Machine Learning - Specialty certification is also a great way to demonstrate your expertise in machine learning to potential clients and customers.

Amazon AWS Certified Machine Learning - Specialty Sample Questions (Q214-Q219):

NEW QUESTION # 214
A Machine Learning Specialist is implementing a full Bayesian network on a dataset that describes public transit in New York City. One of the random variables is discrete, and represents the number of minutes New Yorkers wait for a bus given that the buses cycle every 10 minutes, with a mean of 3 minutes.
Which prior probability distribution should the ML Specialist use for this variable?

- A. Uniform distribution
- B. Binomial distribution
- C. Poisson distribution
- D. Normal distribution

Answer: C

Explanation:
The Poisson distribution is used to model the number of events occurring within a given time interval.

NEW QUESTION # 215
An insurance company is developing a new device for vehicles that uses a camera to observe drivers' behavior and alert them when they appear distracted The company created approximately 10,000 training images in a controlled environment that a Machine Learning Specialist will use to train and evaluate machine learning models During the model evaluation the Specialist notices that the training error rate diminishes faster as the number of epochs increases and the model is not accurately inferring on the unseen test images Which of the following should be used to resolve this issue? (Select TWO)

- A. Use gradient checking in the model
- B. Perform data augmentation on the training data
- C. Add L2 regularization to the model
- D. Add vanishing gradient to the model
- E. Make the neural network architecture complex.

Answer: B,C

NEW QUESTION # 216
Each morning, a data scientist at a rental car company creates insights about the previous day's rental car reservation demands. The company needs to automate this process by streaming the data to Amazon S3 in near real time. The solution must detect high-demand rental cars at each of the company's locations. The solution also must create a visualization dashboard that automatically refreshes with the most recent data.
Which solution will meet these requirements with the LEAST development time?

- A. Use Amazon Kinesis Data Firehose to stream the reservation data directly to Amazon S3. Detect high-demand outliers by using the Random Cut Forest (RCF) trained model in Amazon SageMaker. Visualize the data in Amazon QuickSight.
- B. Use Amazon Kinesis Data Streams to stream the reservation data directly to Amazon S3. Detect high-demand outliers by using the Random Cut Forest (RCF) trained model in Amazon SageMaker. Visualize the data in Amazon QuickSight.
- C. Use Amazon Kinesis Data Streams to stream the reservation data directly to Amazon S3. Detect high-demand outliers by using Amazon QuickSight ML Insights. Visualize the data in QuickSight.
- D. Use Amazon Kinesis Data Firehose to stream the reservation data directly to Amazon S3. Detect high-demand outliers by using Amazon QuickSight ML Insights. Visualize the data in QuickSight.

Answer: D

Explanation:
The solution that will meet the requirements with the least development time is to use Amazon Kinesis Data Firehose to stream the reservation data directly to Amazon S3, detect high-demand outliers by using Amazon QuickSight ML Insights, and visualize the data in QuickSight. This solution does not require any custom development or ML domain expertise, as it leverages the built-in features of QuickSight ML Insights to automatically run anomaly detection and generate insights on the streaming data. QuickSight ML Insights can also create a visualization dashboard that automatically refreshes with the most recent data, and allows the data

scientist to explore the outliers and their key drivers. References:
1: Simplify and automate anomaly detection in streaming data with Amazon Lookout for Metrics | AWS Machine Learning Blog
2: Detecting outliers with ML-powered anomaly detection - Amazon QuickSight
3: Real-time Outlier Detection Over Streaming Data - IEEE Xplore
4: Towards a deep learning-based outlier detection ... - Journal of Big Data

NEW QUESTION # 217
A car company is developing a machine learning solution to detect whether a car is present in an image. The image dataset consists of one million images. Each image in the dataset is 200 pixels in height by 200 pixels in width. Each image is labeled as either having a car or not having a car.
Which architecture is MOST likely to produce a model that detects whether a car is present in an image with the highest accuracy?

- A. Use a deep multilayer perceptron (MLP) classifier with the images as input. Include a linear output layer that outputs the probability that an image contains a car.
- B. Use a deep convolutional neural network (CNN) classifier with the images as input. Include a softmax output layer that outputs the probability that an image contains a car.
- C. Use a deep convolutional neural network (CNN) classifier with the images as input. Include a linear output layer that outputs the probability that an image contains a car.
- D. Use a deep multilayer perceptron (MLP) classifier with the images as input. Include a softmax output layer that outputs the probability that an image contains a car.

Answer: C

Explanation:
A deep convolutional neural network (CNN) classifier is a suitable architecture for image classification tasks, as it can learn features from the images and reduce the dimensionality of the input. A linear output layer that outputs the probability that an image contains a car is appropriate for a binary classification problem, as it can produce a single scalar value between 0 and 1. A softmax output layer is more suitable for a multi-class classification problem, as it can produce a vector of probabilities that sum up to 1. A deep multilayer perceptron (MLP) classifier is not as effective as a CNN for image classification, as it does not exploit the spatial structure of the images and requires a large number of parameters to process the high-dimensional input. References:
AWS Certified Machine Learning - Specialty Exam Guide
AWS Training - Machine Learning on AWS
AWS Whitepaper - An Overview of Machine Learning on AWS

NEW QUESTION # 218
A Machine Learning Specialist is building a logistic regression model that will predict whether or not a person will order a pizza. 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. Misclassification rate
- C. Root Mean Square Error (RM&)
- D. L1 norm

Answer: A

NEW QUESTION # 219
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