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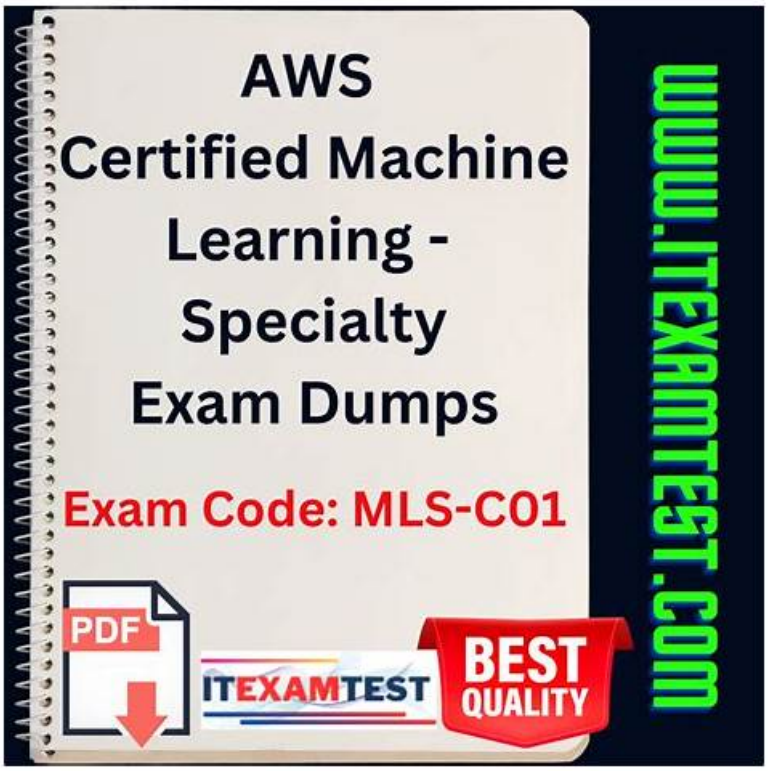

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Amazon AWS Certified Machine Learning - Specialty Sample Questions (Q158-Q163):

NEW QUESTION # 158
A Machine Learning Specialist built an image classification deep learning model. However the Specialist ran into an overfitting problem in which the training and testing accuracies were 99% and 75%r respectively.
How should the Specialist address this issue and what is the reason behind it?

- A. The dimensionality of dense layer next to the flatten layer should be increased because the model is not complex enough.
- B. The learning rate should be increased because the optimization process was trapped at a local minimum.
- C. The dropout rate at the flatten layer should be increased because the model is not generalized enough.
- D. The epoch number should be increased because the optimization process was terminated before it reached the global minimum.

Answer: C

Explanation:
The best way to address the overfitting problem in image classification is to increase the dropout rate at the flatten layer because the model is not generalized enough. Dropout is a regularization technique that randomly drops out some units from the neural network during training, reducing the co-adaptation of features and preventing overfitting. The flatten layer is the layer that converts the output of the convolutional layers into a one-dimensional vector that can be fed into the dense layers. Increasing the dropout rate at the flatten layer means that more features from the convolutional layers will be ignored, forcing the model to learn more robust and generalizable representations from the remaining features.
The other options are not correct for this scenario because:
* Increasing the learning rate would not help with the overfitting problem, as it would make the optimization process more unstable and prone to overshooting the global minimum. A high learning rate can also cause the model to diverge or oscillate around the optimal solution, resulting in poor performance and accuracy.
* Increasing the dimensionality of the dense layer next to the flatten layer would not help with the overfitting problem, as it would make the model more complex and increase the number of parameters to be learned. A more complex model can fit the training data better, but it can also memorize the noise and irrelevant details in the data, leading to overfitting and poor generalization.
* Increasing the epoch number would not help with the overfitting problem, as it would make the model train longer and more likely to overfit the training data. A high epoch number can cause the model to converge to the global minimum, but it can also cause the model to over-optimize the training data and lose the ability to generalize to new data.
References:
* Dropout: A Simple Way to Prevent Neural Networks from Overfitting
* How to Reduce Overfitting With Dropout Regularization in Keras
* How to Control the Stability of Training Neural Networks With the Learning Rate
* How to Choose the Number of Hidden Layers and Nodes in a Feedforward Neural Network?
* How to decide the optimal number of epochs to train a neural network?

NEW QUESTION # 159
A machine learning (ML) engineer is creating a binary classification model. The ML engineer will use the model in a highly sensitive environment.
There is no cost associated with missing a positive label. However, the cost of making a false positive inference is extremely high.
What is the most important metric to optimize the model for in this scenario?

- A. F1
- B. Accuracy
- C. Recall
- D. Precision

Answer: D

Explanation:
Precision measures the proportion of true positive predictions out of all positive predictions made by the model. In this scenario, since the cost of a false positive is high, it is critical to minimize false positives, which means prioritizing high precision.
From AWS documentation:
"Precision is the ratio of correctly predicted positive observations to the total predicted positive observations.
High precision relates to a low false positive rate."
- AWS ML Exam Guide - Evaluation Metrics
Recall (C) would focus on minimizing false negatives, which is not important here as missing positives has no cost. F1 (D) balances precision and recall, but the question emphasizes prioritizing precision only.

NEW QUESTION # 160
The displayed graph is from a foresting model for testing a time series.

Considering the graph only, which conclusion should a Machine Learning Specialist make about the behavior of the model?

- A. The model does not predict the trend or the seasonality well.
- B. The model predicts the seasonality well, but not the trend.
- C. The model predicts both the trend and the seasonality well.
- D. The model predicts the trend well, but not the seasonality.

Answer: A

NEW QUESTION # 161
A trucking company is collecting live image data from its fleet of trucks across the globe. The data is growing rapidly and approximately 100 GB of new data is generated every day. The company wants to explore machine learning uses cases while ensuring the data is only accessible to specific IAM users.
Which storage option provides the most processing flexibility and will allow access control with IAM?

- A. Use a database, such as Amazon DynamoDB, to store the images, and set the IAM policies to restrict access to only the desired IAM users.
- B. Setup up Amazon EMR with Hadoop Distributed File System (HDFS) to store the files, and restrict access to the EMR instances using IAM policies.
- C. Use an Amazon S3-backed data lake to store the raw images, and set up the permissions using bucket policies.
- D. Configure Amazon EFS with IAM policies to make the data available to Amazon EC2 instances owned by the IAM users.

Answer: C

Explanation:
The best storage option for the trucking company is to use an Amazon S3-backed data lake to store the raw images, and set up the permissions using bucket policies. A data lake is a centralized repository that allows you to store all your structured and unstructured data at any scale. Amazon S3 is the ideal choice for building a data lake because it offers high durability, scalability, availability, and security. You can store any type of data in Amazon S3, such as images, videos, audio, text, etc. You can also use AWS services such as Amazon Rekognition, Amazon SageMaker, and Amazon EMR to analyze and process the data in the data lake. To ensure the data is only accessible to specific IAM users, you can use bucket policies to grant or deny access to the S3 buckets based on the IAM user's identity or role. Bucket policies are JSON documents that specify the permissions for the bucket and the objects in it. You can use conditions to restrict access based on various factors, such as IP address, time, source, etc. By using bucket policies, you can control who can access the data in the data lake and what actions they can perform on it.
References:
* AWS Machine Learning Specialty Exam Guide
* AWS Machine Learning Training - Build a Data Lake Foundation with Amazon S3
* AWS Machine Learning Training - Using Bucket Policies and User Policies

NEW QUESTION # 162
A data scientist obtains a tabular dataset that contains 150 correlated features with different ranges to build a regression model. The data scientist needs to achieve more efficient model training by implementing a solution that minimizes impact on the model's performance. The data scientist decides to perform a principal component analysis (PCA) preprocessing step to reduce the number of features to a smaller set of independent features before the data scientist uses the new features in the regression model.
Which preprocessing step will meet these requirements?

- A. Reduce the dimensionality of the dataset by removing the features that have the lowest correlation.Load the data into Amazon SageMaker Data Wrangler. Perform a Min Max Scaler transformation step to scale the data. Use the SageMaker built-in algorithm for PCA on the scaled dataset to transform the data.
- B. Load the data into Amazon SageMaker Data Wrangler. Scale the data with a Min Max Scaler transformation step Use the SageMaker built-in algorithm for PCA on the scaled dataset to transform the data.
- C. Use the Amazon SageMaker built-in algorithm for PCA on the dataset to transform the data
- D. Reduce the dimensionality of the dataset by removing the features that have the highest correlation Load the data into Amazon SageMaker Data Wrangler Perform a Standard Scaler transformation step to scale the data Use the SageMaker built-in algorithm for PCA on the scaled dataset to transform the data

Answer: B

Explanation:

Principal component analysis (PCA) is a technique for reducing the dimensionality of datasets, increasing interpretability but at the same time minimizing information loss. It does so by creating new uncorrelated variables that successively maximize variance. PCA is useful when dealing with datasets that have a large number of correlated features. However, PCA is sensitive to the scale of the features, so it is important to standardize or normalize the data before applying PCA. Amazon SageMaker provides a built-in algorithm for PCA that can be used to transform the data into a lower-dimensional representation. Amazon SageMaker Data Wrangler is a tool that allows data scientists to visually explore, clean, and prepare data for machine learning.
Data Wrangler provides various transformation steps that can be applied to the data, such as scaling, encoding, imputing, etc. Data Wrangler also integrates with SageMaker built-in algorithms, such as PCA, to enable feature engineering and dimensionality reduction. Therefore, option B is the correct answer, as it involves scaling the data with a Min Max Scaler transformation step, which rescales the data to a range of [0,
1], and then using the SageMaker built-in algorithm for PCA on the scaled dataset to transform the data.
Option A is incorrect, as it does not involve scaling the data before applying PCA, which can affect the results of the dimensionality reduction. Option C is incorrect, as it involves removing the features that have the highest correlation, which can lead to information loss and reduce the performance of the regression model.
Option D is incorrect, as it involves removing the features that have the lowest correlation, which can also lead to information loss and reduce the performance of the regression model. References:
* Principal Component Analysis (PCA) - Amazon SageMaker
* Scale data with a Min Max Scaler - Amazon SageMaker Data Wrangler
* Use Amazon SageMaker built-in algorithms - Amazon SageMaker Data Wrangler

NEW QUESTION # 163
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