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Amazon AWS Certified Machine Learning - Specialty certification exam is designed for individuals who want to demonstrate their expertise in building, deploying, and managing machine learning solutions on the Amazon Web Services (AWS) platform. AWS Certified Machine Learning - Specialty certification validates the skills required to design, implement, deploy, and maintain machine learning solutions that are scalable, secure, and highly available. MLS-C01 exam tests candidates' knowledge of various AWS services, including Amazon SageMaker, Amazon S3, Amazon EC2, and Amazon RDS.

The MLS-C01 Certification is highly valued in the industry, as it demonstrates an individual's expertise in machine learning and their ability to work with AWS services. It is also a great way for individuals to differentiate themselves from their peers and advance their careers. AWS Certified Machine Learning - Specialty certification can help individuals secure roles such as data scientist, machine learning engineer, and AI developer.

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To be eligible to take the AWS Certified Machine Learning - Specialty certification exam, the candidate must have a minimum of one year of experience using AWS services, and must have a strong understanding of machine learning concepts and techniques. AWS Certified Machine Learning - Specialty certification exam is a combination of multiple-choice and multiple-response questions, and requires the candidate to demonstrate their practical skills by completing a hands-on lab exercise. Upon passing the exam, the candidate will receive the AWS Certified Machine Learning - Specialty certification, which is valid for three years.

Amazon AWS Certified Machine Learning - Specialty Sample Questions (Q243-Q248):

NEW QUESTION # 243

When submitting Amazon SageMaker training jobs using one of the built-in algorithms, which common parameters MUST be specified? (Select THREE.)

- A. The validation channel identifying the location of validation data on an Amazon S3 bucket.
- B. Hyperparameters in a JSON array as documented for the algorithm used.
- C. The Amazon EC2 instance class specifying whether training will be run using CPU or GPU.
- **D. The output path specifying where on an Amazon S3 bucket the trained model will persist.**
- **E. The IAM role that Amazon SageMaker can assume to perform tasks on behalf of the users.**
- **F. The training channel identifying the location of training data on an Amazon S3 bucket.**

Answer: D,E,F

Explanation:

When submitting Amazon SageMaker training jobs using one of the built-in algorithms, the common parameters that must be specified are:

The training channel identifying the location of training data on an Amazon S3 bucket. This parameter tells SageMaker where to find the input data for the algorithm and what format it is in. For example, `TrainingInputMode: File` means that the input data is in files stored in S3.

The IAM role that Amazon SageMaker can assume to perform tasks on behalf of the users. This parameter grants SageMaker the necessary permissions to access the S3 buckets, ECR repositories, and other AWS resources needed for the training job. For example, `RoleArn: arn:aws:iam::123456789012:role/service-role`

`/AmazonSageMaker-ExecutionRole-20200303T150948` means that SageMaker will use the specified role to run the training job.

The output path specifying where on an Amazon S3 bucket the trained model will persist. This parameter tells SageMaker where to save the model artifacts, such as the model weights and parameters, after the training job is completed. For example, `OutputDataConfig: {S3OutputPath: s3://my-bucket/my-training-job}` means that SageMaker will store the model artifacts in the specified S3 location.

The validation channel identifying the location of validation data on an Amazon S3 bucket is an optional parameter that can be used to provide a separate dataset for evaluating the model performance during the training process. This parameter is not required for all algorithms and can be omitted if the validation data is not available or not needed.

The hyperparameters in a JSON array as documented for the algorithm used is another optional parameter that can be used to customize the behavior and performance of the algorithm. This parameter is specific to each algorithm and can be used to tune the model accuracy, speed, complexity, and other aspects. For example, `HyperParameters: {num_round: "10", objective: "binary:logistic"}` means that the XGBoost algorithm will use 10 boosting rounds and the logistic loss function for binary classification.

The Amazon EC2 instance class specifying whether training will be run using CPU or GPU is not a parameter that is specified when submitting a training job using a built-in algorithm. Instead, this parameter is specified when creating a training instance, which is a containerized environment that runs the training code and algorithm. For example, `ResourceConfig: {InstanceType: ml.m5.xlarge, InstanceCount: 1, VolumeSizeInGB:`

`10}` means that SageMaker will use one m5.xlarge instance with 10 GB of storage for the training instance.

Train a Model with Amazon SageMaker

Use Amazon SageMaker Built-in Algorithms or Pre-trained Models

CreateTrainingJob - Amazon SageMaker Service

NEW QUESTION # 244

A Machine Learning Specialist is building a convolutional neural network (CNN) that will classify 10 types of animals. The Specialist has built a series of layers in a neural network that will take an input image of an animal, pass it through a series of convolutional and pooling layers, and then finally pass it through a dense and fully connected layer with 10 nodes. The Specialist would like to get an output from the neural network that is a probability distribution of how likely it is that the input image belongs to each of the 10 classes. Which function will produce the desired output?

- A. Dropout
- B. Rectified linear units (ReLU)
- C. Smooth L1 loss
- **D. Softmax**

Answer: D

Explanation:

Explanation

The softmax function is a function that can transform a vector of arbitrary real values into a vector of real values in the range (0,1) that sum to 1. This means that the softmax function can produce a valid probability distribution over multiple classes. The softmax

function is often used as the activation function of the output layer in a neural network, especially for multi-class classification problems. The softmax function can assign higher probabilities to the classes with higher scores, which allows the network to make predictions based on the most likely class. In this case, the Machine Learning Specialist wants to get an output from the neural network that is a probability distribution of how likely it is that the input image belongs to each of the 10 classes of animals. Therefore, the softmax function is the most suitable function to produce the desired output.

References:

Softmax Activation Function for Deep Learning: A Complete Guide

What is Softmax in Machine Learning? - reason.town

machine learning - Why is the softmax function often used as activation ...

Multi-Class Neural Networks: Softmax | Machine Learning | Google for ...

NEW QUESTION # 245

A Machine Learning Specialist is given a structured dataset on the shopping habits of a company's customer base. The dataset contains thousands of columns of data and hundreds of numerical columns for each customer. The Specialist wants to identify whether there are natural groupings for these columns across all customers and visualize the results as quickly as possible. What approach should the Specialist take to accomplish these tasks?

- A. Embed the numerical features using the t-distributed stochastic neighbor embedding (t-SNE) algorithm and create a line graph.
- **B. Run k-means using the Euclidean distance measure for different values of k and create an elbow plot.**
- C. Run k-means using the Euclidean distance measure for different values of k and create box plots for each numerical column within each cluster.
- D. Embed the numerical features using the t-distributed stochastic neighbor embedding (t-SNE) algorithm and create a scatter plot.

Answer: B

NEW QUESTION # 246

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. Poisson distribution ,
- B. Normal distribution
- **C. Uniform distribution**
- D. Binomial distribution

Answer: C

NEW QUESTION # 247

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. L1 norm
- D. Root Mean Square Error (RMSE)

Answer: A

Explanation:

<https://docs.aws.amazon.com/machine-learning/latest/dg/binary-model-insights.html>

NEW QUESTION # 248

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