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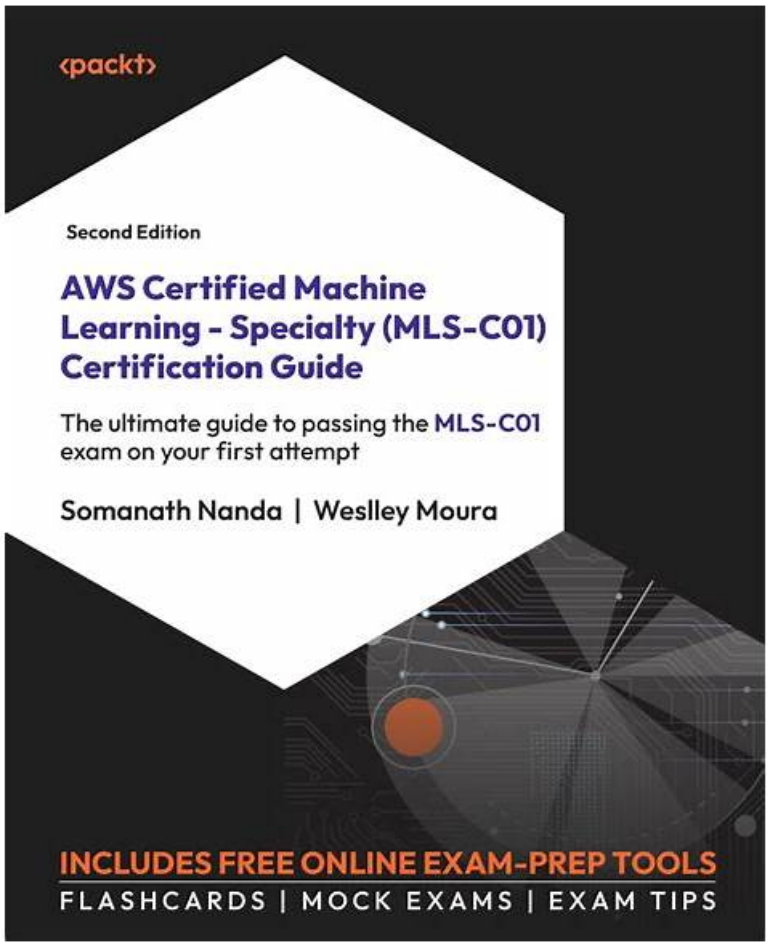

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Advantages of AWS Certified Machine Learning Specialty Exam

- Amazon AWS Certified Machine Learning Specialty is distinguished among competitors. AmazonAWS Certified Machine Learning Specialty can give them an edge at that time easily when candidates appear for a job interview employers seek to notify something which differentiates the individual to another.
- Amazon AWS Certified Machine Learning Specialty will be confident and stand different from others as their skills are more trained than non-certified professionals.
- Amazon AWS Certified Machine Learning Specialty has the knowledge to use the tools to complete the task efficiently and cost effectively than the other non-certified professionals lack in doing so.

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The AWS Certified Machine Learning - Specialty exam is designed to test the skills and knowledge of professionals who work with machine learning technologies on the Amazon Web Services (AWS) platform. AWS Certified Machine Learning - Specialty certification is intended for individuals who have experience with data science, machine learning algorithms, and AWS services. MLS-C01 Exam is designed to test candidates' ability to design, implement, deploy, and maintain machine learning solutions on AWS.

Earning the AWS Certified Machine Learning - Specialty certification is beneficial for professionals in the field of machine learning. AWS Certified Machine Learning - Specialty certification validates their skills and knowledge in designing and deploying machine learning solutions using AWS services. It also demonstrates their proficiency in using AWS tools and services to build and maintain machine learning models. AWS Certified Machine Learning - Specialty certification can help professionals advance their careers and increase their earning potential.

Amazon AWS Certified Machine Learning - Specialty Sample Questions (Q96-Q101):

NEW QUESTION # 96
A machine learning specialist is developing a proof of concept for government users whose primary concern is security. The specialist is using Amazon SageMaker to train a convolutional neural network (CNN) model for a photo classifier application. The specialist wants to protect the data so that it cannot be accessed and transferred to a remote host by malicious code accidentally installed on the training container.
Which action will provide the MOST secure protection?

- A. Enable network isolation for training jobs.
- B. Remove Amazon S3 access permissions from the SageMaker execution role.
- C. Encrypt the training and validation dataset.
- D. Encrypt the weights of the CNN model.

Answer: A

Explanation:
Explanation
The most secure action to protect the data from being accessed and transferred to a remote host by malicious code accidentally installed on the training container is to enable network isolation for training jobs. Network isolation is a feature that allows you to run training and inference containers in internet-free mode, which blocks any outbound network calls from the containers, even to other AWS services such as Amazon S3.
Additionally, no AWS credentials are made available to the container runtime environment. This way, you can prevent unauthorized access to your data and resources by malicious code or users. You can enable network isolation by setting the EnableNetworkIsolation parameter to True when you call CreateTrainingJob, CreateHyperParameterTuningJob, or CreateModel.
References:
Run Training and Inference Containers in Internet-Free Mode - Amazon SageMaker

NEW QUESTION # 97
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. Increase the XGBoost scale_pos_weight parameter to adjust the balance of positive and negative weights.
- C. Increase the XGBoost max_depth parameter because the model is currently underfitting the data.
- D. Decrease the XGBoost max_depth parameter because the model is currently overfitting the data.
- E. Change the XGBoost evaljnetric parameter to optimize based on AUC instead of error.

Answer: B,E

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 # 98
A Machine Learning Specialist is developing a custom video recommendation model for an application The dataset used to train this model is very large with millions of data points and is hosted in an Amazon S3 bucket The Specialist wants to avoid loading all of this data onto an Amazon SageMaker notebook instance because it would take hours to move and will exceed the attached 5 GB Amazon EBS volume on the notebook instance.
Which approach allows the Specialist to use all the data to train the model?

- A. Load a smaller subset of the data into the SageMaker notebook and train locally. Confirm that the training code is executing and the model parameters seem reasonable Initiate a SageMaker training job using the full dataset from the S3 bucket using Pipe input mode
- B. Launch an Amazon EC2 instance with an AWS Deep Learning AMI and attach the S3 bucket to the instance Train on a small amount of the data to verify the training code and hyperparameters. Go back to Amazon SageMaker and tram using the full dataset.
- C. Load a smaller subset of the data into the SageMaker notebook and train locally. Confirm that the training code is executing and the model parameters seem reasonable Launch an Amazon EC2 instance with an AWS Deep Learning AMI and attach the S3 bucket to train the full dataset.
- D. Use AWS Glue to train a model using a small subset of the data to confirm that the data will be compatible with Amazon SageMaker. Initiate a SageMaker training job using the full dataset from the S3 bucket using Pipe input mode

Answer: B

NEW QUESTION # 99
A Machine Learning Specialist is creating a new natural language processing application that processes a dataset comprised of 1 million sentences The aim is to then run Word2Vec to generate embeddings of the sentences and enable different types of predictions - Here is an example from the dataset
"The quck BROWN FOX jumps over the lazy dog "
Which of the following are the operations the Specialist needs to perform to correctly sanitize and prepare the data in a repeatable manner? (Select THREE)

- A. Normalize all words by making the sentence lowercase
- B. Correct the typography on "quck" to "quick."
- C. Tokenize the sentence into words.
- D. Remove stop words using an English stopword dictionary.
- E. One-hot encode all words in the sentence
- F. Perform part-of-speech tagging and keep the action verb and the nouns only

Answer: A,C,D

Explanation:
To prepare the data for Word2Vec, the Specialist needs to perform some preprocessing steps that can help reduce the noise and complexity of the data, as well as improve the quality of the embeddings. Some of the common preprocessing steps for Word2Vec are:
* Normalizing all words by making the sentence lowercase: This can help reduce the vocabulary size and treat words with different capitalizations as the same word. For example, "Fox" and "fox" should be considered as the same word, not two different words.
* Removing stop words using an English stopword dictionary: Stop words are words that are very common and do not carry much semantic meaning, such as "the", "a", "and", etc. Removing them can help focus on the words that are more relevant and informative for the task.
* Tokenizing the sentence into words: Tokenization is the process of splitting a sentence into smaller units, such as words or subwords. This is necessary for Word2Vec, as it operates on the word level and requires a list of words as input.
The other options are not necessary or appropriate for Word2Vec:
* Performing part-of-speech tagging and keeping the action verb and the nouns only: Part-of-speech tagging is the process of assigning a grammatical category to each word, such as noun, verb, adjective, etc. This can be useful for some natural language processing tasks, but not for Word2Vec, as it can lose some important information and context by discarding other words.
* Correcting the typography on "quck" to "quick": Typo correction can be helpful for some tasks, but not for Word2Vec, as it can introduce errors and inconsistencies in the data. For example, if the typo is intentional or part of a dialect, correcting it can change the meaning or style of the sentence. Moreover, Word2Vec can learn to handle typos and variations in spelling by learning similar embeddings for them.
* One-hot encoding all words in the sentence: One-hot encoding is a way of representing words as vectors of 0s and 1s, where only one element is 1 and the rest are 0. The index of the 1 element corresponds to the word's position in the vocabulary. For example, if the vocabulary is ["cat", "dog",
"fox"], then "cat" can be encoded as [1, 0, 0], "dog" as [0, 1, 0], and "fox" as [0, 0, 1]. This can be useful for some machine learning models, but not for Word2Vec, as it does not capture the semantic similarity and relationship between words. Word2Vec aims to learn dense and low-dimensional embeddings for words, where similar words have similar vectors.

NEW QUESTION # 100
A machine learning specialist is developing a proof of concept for government users whose primary concern is security. The specialist is using Amazon SageMaker to train a convolutional neural network (CNN) model for a photo classifier application. The specialist wants to protect the data so that it cannot be accessed and transferred to a remote host by malicious code accidentally installed on the training container.
Which action will provide the MOST secure protection?

- A. Enable network isolation for training jobs.
- B. Remove Amazon S3 access permissions from the SageMaker execution role.
- C. Encrypt the training and validation dataset.
- D. Encrypt the weights of the CNN model.

Answer: A

NEW QUESTION # 101

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