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Understanding functional and technical aspects of AWS Certified Machine Learning - Specialty Modeling

The following will be discussed in **AMAZON MLS-C01 exam dumps**:

- Perform hyperparameter optimization
- Train machine learning models
- Select the appropriate model(s) for a given machine learning problem
- Frame business problems as machine learning problems
- Evaluate machine learning models

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The AWS Certified Machine Learning - Specialty (AWS-Certified-Machine-Learning-Specialty) exam questions can help you gain the high-in-demand skills and credentials you need to pursue a rewarding career. To do this you just need to pass the AWS Certified Machine Learning - Specialty (AWS-Certified-Machine-Learning-Specialty) certification exam which is not easy to crack. You have to put in some extra effort, and time and prepare thoroughly to pass the Amazon AWS-Certified-Machine-Learning-Specialty Exam. For the quick, complete, and comprehensive AWS Certified Machine Learning - Specialty (AWS-Certified-Machine-Learning-Specialty) exam dumps preparation you can get help from top-notch and easy-to-use AWS-Certified-Machine-Learning-Specialty Questions.

Amazon AWS Certified Machine Learning - Specialty Sample Questions (Q202-Q207):

NEW QUESTION # 202
A company wants to predict stock market price trends. The company stores stock market data each business day in Amazon S3 in Apache Parquet format. The company stores 20 GB of data each day for each stock code.
A data engineer must use Apache Spark to perform batch preprocessing data transformations quickly so the company can complete prediction jobs before the stock market opens the next day. The company plans to track more stock market codes and needs a way to scale the preprocessing data transformations.
Which AWS service or feature will meet these requirements with the LEAST development effort over time?

- A. Amazon EMR cluster
- B. AWS Lambda
- C. AWS Glue jobs
- D. Amazon Athena

Answer: C

Explanation:
AWS Glue jobs is the AWS service or feature that will meet the requirements with the least development effort over time. AWS Glue jobs is a fully managed service that enables data engineers to run Apache Spark applications on a serverless Spark environment. AWS Glue jobs can perform batch preprocessing data transformations on large datasets stored in Amazon S3, such as converting data formats, filtering data, joining data, and aggregating data. AWS Glue jobs can also scale the Spark environment automatically based on the data volume and processing needs, without requiring any infrastructure provisioning or management. AWS Glue jobs can reduce the development effort and time by providing a graphical interface to create and monitor Spark applications, as well as a code generation feature that can generate Scala or Python code based on the data sources and targets. AWS Glue jobs can also integrate with other AWS services, such as Amazon Athena, Amazon EMR, and Amazon SageMaker, to enable further data analysis and machine learning tasks1.
The other options are either more complex or less scalable than AWS Glue jobs. Amazon EMR cluster is a managed service that enables data engineers to run Apache Spark applications on a cluster of Amazon EC2 instances. However, Amazon EMR cluster requires more development effort and time than AWS Glue jobs, as it involves setting up, configuring, and managing the cluster, as well as writing and deploying the Spark code. Amazon EMR cluster also does not scale automatically, but requires manual or scheduled resizing of the cluster based on the data volume and processing needs2. Amazon Athena is a serverless interactive query service that enables data engineers to analyze data stored in Amazon S3 using standard SQL. However, Amazon Athena is not suitable for performing complex data transformations, such as joining data from multiple sources, aggregating data, or applying custom logic. Amazon Athena is also not designed for running Spark applications, but only supports SQL queries3. AWS Lambda is a serverless compute service that enables data engineers to run code without provisioning or managing servers. However, AWS Lambda is not optimized for running Spark applications, as it has limitations on the execution time, memory size, and concurrency of the functions. AWS Lambda is also not integrated with Amazon S3, and requires additional steps to read and write data from S3 buckets.
1: AWS Glue - Fully Managed ETL Service - Amazon Web Services
2: Amazon EMR - Amazon Web Services
3: Amazon Athena - Interactive SQL Queries for Data in Amazon S3
[4]: AWS Lambda - Serverless Compute - Amazon Web Services

NEW QUESTION # 203
A company uses camera images of the tops of items displayed on store shelves to determine which items were removed and which ones still remain. After several hours of data labeling, the company has a total of
1,000 hand-labeled images covering 10 distinct items. The training results were poor.
Which machine learning approach fulfills the company's long-term needs?

- A. Attach different colored labels to each item, take the images again, and build the model
- B. Reduce the number of distinct items from 10 to 2, build the model, and iterate
- C. Augment training data for each item using image variants like inversions and translations, build the model, and iterate.
- D. Convert the images to grayscale and retrain the model

Answer: C

Explanation:
Data augmentation is a technique that can increase the size and diversity of the training data by applying various transformations to the original images, such as inversions, translations, rotations, scaling, cropping, flipping, and color variations. Data augmentation can help improve the performance and generalization of image classification models by reducing overfitting and introducing more variability to the data. Data augmentation is especially useful when the original data is limited or imbalanced, as in the case of the company's problem. By augmenting the training data for each item using image variants, the company can build a more robust and accurate model that can recognize the items on the store shelves from different angles, positions, and lighting conditions. The company can also iterate on the model by adding more data or fine-tuning the hyperparameters to achieve better results.
Build high performing image classification models using Amazon SageMaker JumpStart The Effectiveness of Data Augmentation in Image Classification using Deep Learning Data augmentation for improving deep learning in image classification problem Class-Adaptive Data Augmentation for Image Classification

NEW QUESTION # 204
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. Perform part-of-speech tagging and keep the action verb and the nouns only
- C. Tokenize the sentence into words.
- D. Correct the typography on "quck" to "quick."
- E. One-hot encode all words in the sentence
- F. Remove stop words using an English stopword dictionary.

Answer: A,C,F

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 # 205
The displayed graph is from a forecasting 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 predicts both the trend and the seasonality well
- B. The model does not predict the trend or the seasonality well.
- C. The model predicts the seasonality well, but not the trend.
- D. The model predicts the trend well, but not the seasonality.

Answer: B

NEW QUESTION # 206
A Machine Learning Specialist is attempting to build a linear regression model.
Given the displayed residual plot only, what is the MOST likely problem with the model?

- A. Linear regression is appropriate. The residuals have constant variance.
- B. Linear regression is inappropriate. The residuals do not have constant variance.
- C. Linear regression is inappropriate. The underlying data has outliers.
- D. Linear regression is appropriate. The residuals have a zero mean.

Answer: A

NEW QUESTION # 207
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