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The AWS Certified Machine Learning - Specialty exam consists of multiple-choice and multiple-response questions. MLS-C01 Exam is designed to test the candidates' knowledge of AWS machine learning services, algorithms, and data science tools. Candidates are required to demonstrate their ability to design, implement, and maintain machine learning solutions using AWS services such as Amazon SageMaker, Amazon Rekognition, and Amazon Comprehend.

Getting the Results

The minimum passing score for this test is 750 marks. The result will be reported on a scale of 100-1000. Note that there might be some unscored items in the exam that are not identified but don't affect your score. Also, always keep in mind that you don't need to succeed in each section to get a pass status and obtain the certification — only a total amount of points matters. The report is only

needed to show individuals their performance in each domain and help them identify what are their weak and strong areas of Machine Learning.

The AWS Certified Machine Learning - Specialty Certification Exam is a valuable credential for professionals looking to advance their careers in the field of machine learning. It is recognized globally and demonstrates the candidate's expertise in designing and implementing machine learning solutions on the AWS platform. AWS Certified Machine Learning - Specialty certification can help professionals stand out in a competitive job market and open up new career opportunities in the field of machine learning.

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Amazon AWS Certified Machine Learning - Specialty Sample Questions (Q126-Q131):

NEW QUESTION # 126
A Data Science team within a large company uses Amazon SageMaker notebooks to access data stored in Amazon S3 buckets. The IT Security team is concerned that internet-enabled notebook instances create a security vulnerability where malicious code running on the instances could compromise data privacy. The company mandates that all instances stay within a secured VPC with no internet access, and data communication traffic must stay within the AWS network.
How should the Data Science team configure the notebook instance placement to meet these requirements?

- A. Associate the Amazon SageMaker notebook with a private subnet in a VPC. Place the Amazon SageMaker endpoint and S3 buckets within the same VPC.
- B. Associate the Amazon SageMaker notebook with a private subnet in a VPC. Ensure the VPC has a NAT gateway and an associated security group allowing only outbound connections to Amazon S3 and Amazon SageMaker.
- C. Associate the Amazon SageMaker notebook with a private subnet in a VPC. Ensure the VPC has S3 VPC endpoints and Amazon SageMaker VPC endpoints attached to it.
- D. Associate the Amazon SageMaker notebook with a private subnet in a VPC. Use IAM policies to grant access to Amazon S3 and Amazon SageMaker.

Answer: C

NEW QUESTION # 127
A Data Scientist is building a model to predict customer churn using a dataset of 100 continuous numerical features. The Marketing team has not provided any insight about which features are relevant for churn prediction. The Marketing team wants to interpret the model and see the direct impact of relevant features on the model outcome. While training a logistic regression model, the Data Scientist observes that there is a wide gap between the training and validation set accuracy.
Which methods can the Data Scientist use to improve the model performance and satisfy the Marketing team's needs? (Choose two.)

- A. Perform t-distributed stochastic neighbor embedding (t-SNE)
- B. Add L1 regularization to the classifier
- C. Add features to the dataset
- D. Perform linear discriminant analysis
- E. Perform recursive feature elimination

Answer: C,D

NEW QUESTION # 128
An online reseller has a large, multi-column dataset with one column missing 30% of its data A Machine Learning Specialist believes that certain columns in the dataset could be used to reconstruct the missing data Which reconstruction approach should the Specialist

use to preserve the integrity of the dataset1?

- A. Last observation carried forward
- B. Mean substitution
- C. Multiple imputation
- D. Listwise deletion

Answer: D

NEW QUESTION # 129
A company is creating an application to identify, count, and classify animal images that are uploaded to the company's website. The company is using the Amazon SageMaker image classification algorithm with an ImageNetV2 convolutional neural network (CNN). The solution works well for most animal images but does not recognize many animal species that are less common.
The company obtains 10,000 labeled images of less common animal species and stores the images in Amazon S3. A machine learning (ML) engineer needs to incorporate the images into the model by using Pipe mode in SageMaker.
Which combination of steps should the ML engineer take to train the model? (Choose two.)

- A. Use a ResNet model. Initiate full training mode by initializing the network with random weights.
- B. Use an augmented manifest file in JSON Lines format.
- C. Create a .lst file that contains a list of image files and corresponding class labels. Upload the .lst file to Amazon S3.
- D. Initiate transfer learning. Train the model by using the images of less common species.
- E. Use an Inception model that is available with the SageMaker image classification algorithm.

Answer: C,D

Explanation:
The combination of steps that the ML engineer should take to train the model are to create a .lst file that contains a list of image files and corresponding class labels, upload the .lst file to Amazon S3, and initiate transfer learning by training the model using the images of less common species. This approach will allow the ML engineer to leverage the existing ImageNetV2 CNN model and fine-tune it with the new data using Pipe mode in SageMaker.
A .lst file is a text file that contains a list of image files and corresponding class labels, separated by tabs. The .
lst file format is required for using the SageMaker image classification algorithm with Pipe mode. Pipe mode is a feature of SageMaker that enables streaming data directly from Amazon S3 to the training instances, without downloading the data first. Pipe mode can reduce the startup time, improve the I/O throughput, and enable training on large datasets that exceed the disk size limit. To use Pipe mode, the ML engineer needs to upload the .lst file to Amazon S3 and specify the S3 path as the input data channel for the training job1.
Transfer learning is a technique that enables reusing a pre-trained model for a new task by fine-tuning the model parameters with new data. Transfer learning can save time and computational resources, as well as improve the performance of the model, especially when the new task is similar to the original task. The SageMaker image classification algorithm supports transfer learning by allowing the ML engineer to specify the number of output classes and the number of layers to be retrained. The ML engineer can use the existing ImageNetV2 CNN model, which is trained on 1,000 classes of common objects, and fine-tune it with the new data of less common animal species, which is a similar task2.
The other options are either less effective or not supported by the SageMaker image classification algorithm.
Using a ResNet model and initiating full training mode would require training the model from scratch, which would take more time and resources than transfer learning. Using an Inception model is not possible, as the SageMaker image classification algorithm only supports ResNet and ImageNetV2 models. Using an augmented manifest file in JSON Lines format is not compatible with Pipe mode, as Pipe mode only supports .
lst files for image classification1.
1: Using Pipe input mode for Amazon SageMaker algorithms | AWS Machine Learning Blog
2: Image Classification Algorithm - Amazon SageMaker

NEW QUESTION # 130
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. Augment training data for each item using image variants like inversions and translations, build the model,
- B. Convert the images to grayscale and retrain the model

- C. Reduce the number of distinct items from 10 to 2, build the model, and iterate
- D. Attach different colored labels to each item, take the images again, and build the model

Answer: B

Explanation:
and iterate.

NEW QUESTION # 131
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