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AWS認證的機器學習 - 專業考試適用於對機器學習有深入了解的個人，包括深度學習和神經網絡，並具有在AWS平台上設計，實施和部署機器學習解決方案的經驗。該認證對於數據科學家，軟件開發人員和其他IT專業人員特別有價值，他們希望在機器學習方面展示自己的專業知識並在競爭激烈的就業市場中與眾不同。通過此認證，候選人可以向潛在的雇主和客戶展示他們的技能，並獲得獨家AWS資源和網絡機會。

AWS 認證機器學習 - 專業認證在行業中受到高度重視，被認為是機器學習領域專業知識的標桿。對個人而言，它是展示使用 AWS 服務構建和部署機器學習模型的能力的重要方式。該認證還可以幫助個人在競爭激烈的就業市場中脫穎而出，為在數據科學、人工智慧和機器學習等領域的職業發展開闢新的機會。

>> AWS-Certified-Machine-Learning-Specialty學習指南 <<

AWS-Certified-Machine-Learning-Specialty熱門認證，AWS-Certified-Machine-Learning-Specialty題庫資訊

只為成功找方法，不為失敗找藉口。想要通過Amazon的AWS-Certified-Machine-Learning-Specialty考試認證其實也沒有那麼難，關鍵在於你用什麼樣的方式方法。選擇PDFExamDumps Amazon的AWS-Certified-Machine-Learning-Specialty考試培訓資料是個不錯選擇，它會幫助我們順利通過考試，這也是通往成功的最佳捷徑，每個人都有可能成功，關鍵在於選擇。

該考試適用於那些深入了解機器學習算法和框架，並具有Amazon SageMaker，Amazon S3，Amazon EC2和Amazon EMR等AWS服務經驗的人。候選人還必須具有Python和R等編程語言的經驗，以及數據預處理，特徵工程和模型評估的經驗。

最新的 AWS Certified Machine Learning AWS-Certified-Machine-Learning-Specialty 免費考試真題 (Q20-Q25):

問題 #20

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

答案： A

解題說明：

A residual plot is a type of plot that displays the values of a predictor variable in a regression model along the x-axis and the values of the residuals along the y-axis. This plot is used to assess whether or not the residuals in a regression model are normally distributed and whether or not they exhibit heteroscedasticity.

Heteroscedasticity means that the variance of the residuals is not constant across different values of the predictor variable. This violates one of the assumptions of linear regression and can lead to biased estimates and unreliable predictions. The displayed residual plot shows a clear pattern of heteroscedasticity, as the residuals spread out as the fitted values increase. This indicates that linear regression is inappropriate for this data and a different model should be used. References:

- * Regression - Amazon Machine Learning
- * How to Create a Residual Plot by Hand
- * How to Create a Residual Plot in Python

問題 #21

A financial services company wants to adopt Amazon SageMaker as its default data science environment. The company's data scientists run machine learning (ML) models on confidential financial data. The company is worried about data egress and wants an ML engineer to secure the environment.

Which mechanisms can the ML engineer use to control data egress from SageMaker? (Choose three.)

- A. Restrict notebook presigned URLs to specific IPs used by the company.
- B. Use SCPs to restrict access to SageMaker.
- **C. Connect to SageMaker by using a VPC interface endpoint powered by AWS PrivateLink.**
- D. Disable root access on the SageMaker notebook instances.
- **E. Enable network isolation for training jobs and models.**
- **F. Protect data with encryption at rest and in transit. Use AWS Key Management Service (AWS KMS) to manage encryption keys.**

答案： C,E,F

解題說明：

To control data egress from SageMaker, the ML engineer can use the following mechanisms:

Connect to SageMaker by using a VPC interface endpoint powered by AWS PrivateLink. This allows the ML engineer to access SageMaker services and resources without exposing the traffic to the public internet. This reduces the risk of data leakage and unauthorized access¹

Enable network isolation for training jobs and models. This prevents the training jobs and models from accessing the internet or other AWS services. This ensures that the data used for training and inference is not exposed to external sources²

Protect data with encryption at rest and in transit. Use AWS Key Management Service (AWS KMS) to manage encryption keys. This enables the ML engineer to encrypt the data stored in Amazon S3 buckets, SageMaker notebook instances, and SageMaker endpoints. It also allows the ML engineer to encrypt the data in transit between SageMaker and other AWS services. This helps protect the data from unauthorized access and tampering³

The other options are not effective in controlling data egress from SageMaker:

Use SCPs to restrict access to SageMaker. SCPs are used to define the maximum permissions for an organization or organizational unit (OU) in AWS Organizations. They do not control the data egress from SageMaker, but rather the access to SageMaker itself⁴

Disable root access on the SageMaker notebook instances. This prevents the users from installing additional packages or libraries on the notebook instances. It does not prevent the data from being transferred out of the notebook instances.

Restrict notebook presigned URLs to specific IPs used by the company. This limits the access to the notebook instances from certain IP addresses. It does not prevent the data from being transferred out of the notebook instances.

References:

1: Amazon SageMaker Interface VPC Endpoints (AWS PrivateLink) - Amazon SageMaker

2: Network Isolation - Amazon SageMaker

3: Encrypt Data at Rest and in Transit - Amazon SageMaker

4: Using Service Control Policies - AWS Organizations

5: Disable Root Access - Amazon SageMaker

6: Create a Presigned Notebook Instance URL - Amazon SageMaker

問題 #22

A media company with a very large archive of unlabeled images, text, audio, and video footage wishes to index its assets to allow rapid identification of relevant content by the Research team. The company wants to use machine learning to accelerate the efforts of its in-house researchers who have limited machine learning expertise.

Which is the FASTEST route to index the assets?

- A. Use the AWS Deep Learning AMI and Amazon EC2 GPU instances to create custom models for audio transcription and topic modeling, and use object detection to tag data into distinct categories/classes.
- B. Create a set of Amazon Mechanical Turk Human Intelligence Tasks to label all footage.
- **C. Use Amazon Rekognition, Amazon Comprehend, and Amazon Transcribe to tag data into distinct categories/classes.**
- D. Use Amazon Transcribe to convert speech to text. Use the Amazon SageMaker Neural Topic Model (NTM) and Object Detection algorithms to tag data into distinct categories/classes.

答案: C

問題 #23

A data scientist is using the Amazon SageMaker Neural Topic Model (NTM) algorithm to build a model that recommends tags from blog posts. The raw blog post data is stored in an Amazon S3 bucket in JSON format. During model evaluation, the data scientist discovered that the model recommends certain stopwords such as "a," "an," and "the" as tags to certain blog posts, along with a few rare words that are present only in certain blog entries. After a few iterations of tag review with the content team, the data scientist notices that the rare words are unusual but feasible. The data scientist also must ensure that the tag recommendations of the generated model do not include the stopwords.

What should the data scientist do to meet these requirements?

- A. Use the Amazon Comprehend entity recognition API operations. Remove the detected words from the blog post data. Replace the blog post data source in the S3 bucket.
- B. Use the SageMaker built-in Object Detection algorithm instead of the NTM algorithm for the training job to process the blog post data.
- **C. Remove the stopwords from the blog post data by using the Count Vectorizer function in the scikit-learn library. Replace the blog post data in the S3 bucket with the results of the vectorizer.**
- D. Run the SageMaker built-in principal component analysis (PCA) algorithm with the blog post data from the S3 bucket as the data source. Replace the blog post data in the S3 bucket with the results of the training job.

答案: C

問題 #24

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

答案: C

解題說明:
and iterate.

問題 #25

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