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【MLA-C01】AWS Machine Learning Engineer Associateとは？勉強方法と教材紹介



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我們都知道，在互聯網普及的時代，需要什麼資訊那是非常簡單的事情，不過缺乏的是品質及適用性的問題。許多人在網路上搜尋Amazon的MLA-C01考試認證培訓資料，卻不知道該如何去相信，在這裏，我向大家推薦VCESoft Amazon的MLA-C01考試認證培訓資料，它在互聯網上點擊率購買率好評率都是最高的，VCESoft Amazon的MLA-C01考試認證培訓資料有部分免費的試用考題及答案，你們可以先試用後決定買不買，這樣就知道VCESoft所有的是不是真實的。

Amazon MLA-C01 考試大綱：

主題	簡介
主題 1	<ul style="list-style-type: none"> Data Preparation for Machine Learning (ML): This section of the exam measures skills of Forensic Data Analysts and covers collecting, storing, and preparing data for machine learning. It focuses on understanding different data formats, ingestion methods, and AWS tools used to process and transform data. Candidates are expected to clean and engineer features, ensure data integrity, and address biases or compliance issues, which are crucial for preparing high-quality datasets in fraud analysis contexts.
主題 2	<ul style="list-style-type: none"> Deployment and Orchestration of ML Workflows: This section of the exam measures skills of Forensic Data Analysts and focuses on deploying machine learning models into production environments. It covers choosing the right infrastructure, managing containers, automating scaling, and orchestrating workflows through CI CD pipelines. Candidates must be able to build and script environments that support consistent deployment and efficient retraining cycles in real-world fraud detection systems.

主題 3	<ul style="list-style-type: none"> • ML Solution Monitoring, Maintenance, and Security: This section of the exam measures skills of Fraud Examiners and assesses the ability to monitor machine learning models, manage infrastructure costs, and apply security best practices. It includes setting up model performance tracking, detecting drift, and using AWS tools for logging and alerts. Candidates are also tested on configuring access controls, auditing environments, and maintaining compliance in sensitive data environments like financial fraud detection.
主題 4	<ul style="list-style-type: none"> • ML Model Development: This section of the exam measures skills of Fraud Examiners and covers choosing and training machine learning models to solve business problems such as fraud detection. It includes selecting algorithms, using built-in or custom models, tuning parameters, and evaluating performance with standard metrics. The domain emphasizes refining models to avoid overfitting and maintaining version control to support ongoing investigations and audit trails.

最新的 AWS Certified Associate MLA-C01 免費考試真題 (Q136-Q141):

問題 #136

A company is gathering audio, video, and text data in various languages. The company needs to use a large language model (LLM) to summarize the gathered data that is in Spanish.

Which solution will meet these requirements in the LEAST amount of time?

- A. Use Amazon Rekognition and Amazon Translate to convert the data into English text. Use Amazon Bedrock with the Anthropic Claude model to summarize the text.
- **B. Use Amazon Transcribe and Amazon Translate to convert the data into English text. Use Amazon Bedrock with the Jurassic model to summarize the text.**
- C. Train and deploy a model in Amazon SageMaker to convert the data into English text. Train and deploy an LLM in SageMaker to summarize the text.
- D. Use Amazon Comprehend and Amazon Translate to convert the data into English text. Use Amazon Bedrock with the Stable Diffusion model to summarize the text.

答案: B

問題 #137

A company wants to improve the sustainability of its ML operations.

Which actions will reduce the energy usage and computational resources that are associated with the company's training jobs? (Choose two.)

- **A. Use AWS Trainium instances for training.**
- B. Use PyTorch or TensorFlow with the distributed training option.
- C. Use Amazon SageMaker Ground Truth for data labeling.
- D. Deploy models by using AWS Lambda functions.
- **E. Use Amazon SageMaker Debugger to stop training jobs when non-converging conditions are detected.**

答案: A,E

解題說明:

SageMaker Debugger can identify when a training job is not converging or is stuck in a non-productive state.

By stopping these jobs early, unnecessary energy and computational resources are conserved, improving sustainability.

AWS Trainium instances are purpose-built for ML training and are optimized for energy efficiency and cost-effectiveness. They use less energy per training task compared to general-purpose instances, making them a sustainable choice.

問題 #138

A company needs an AWS solution that will automatically create versions of ML models as the models are created. Which solution will meet this requirement?

- A. Amazon Elastic Container Registry (Amazon ECR)
- B. Model packages from Amazon SageMaker Marketplace
- **C. Amazon SageMaker Model Registry**

- D. Amazon SageMaker ML Lineage Tracking

答案： C

解題說明：

Option D is correct because Amazon SageMaker Model Registry is the AWS feature specifically designed to catalog models, manage model versions, and organize them into model groups . AWS documentation states that you can create a Model Group and then register each model you train , and the Model Registry adds it to the Model Group as a new model version . That directly matches the requirement to automatically create versions of ML models as models are created.

The AWS docs also describe a standard workflow in which you first create a Model Group, then create an ML pipeline, and for each run of the ML pipeline , create a model version that is registered in that group. This means Model Registry supports exactly the kind of lifecycle management and version tracking needed in an MLOps workflow where new model artifacts are produced over time and need consistent governance.

The other options do not meet the requirement. Amazon ECR stores container images, not model version history. SageMaker Marketplace model packages are for discovering or subscribing to third-party or prebuilt solutions, not for automatically versioning your organization's trained models. SageMaker ML Lineage Tracking helps trace artifacts, datasets, and processing steps for reproducibility, but AWS documentation distinguishes lineage from the actual model version management capability provided by Model Registry. Model Registry is the AWS-native feature for keeping versioned records of trained models and managing approval status, deployment readiness, and metadata in a centralized way.

Therefore, the fully verified AWS-docs answer is D , because SageMaker Model Registry is the service purpose-built to create and manage model versions as new models are produced.

問題 #139

An ML engineer is building a generative AI application on Amazon Bedrock by using large language models (LLMs).

Select the correct generative AI term from the following list for each description. Each term should be selected one time or not at all. (Select three.)

- * Embedding
- * Retrieval Augmented Generation (RAG)
- * Temperature
- * Token

答案：

解題說明：

Explanation:

Text representation of basic units of data processed by LLMs: Token

High-dimensional vectors that contain the semantic meaning of text: Embedding
Enrichment of information from additional data sources to improve a generated response: Retrieval Augmented Generation (RAG)

Comprehensive Detailed Explanation Token:
Description: A token represents the smallest unit of text (e.g., a word or part of a word) that an LLM processes. For example, "running" might be split into two tokens: "run" and "ing." Why? Tokens are the fundamental building blocks for LLM input and output processing, ensuring that the model can understand and generate text efficiently.

Embedding:

Description: High-dimensional vectors that encode the semantic meaning of text. These vectors are representations of words, sentences, or even paragraphs in a way that reflects their relationships and meaning.

Why? Embeddings are essential for enabling similarity search, clustering, or any task requiring semantic understanding. They allow the model to "understand" text contextually.

Retrieval Augmented Generation (RAG):

Description: A technique where information is enriched or retrieved from external data sources (e.g., knowledge bases or document stores) to improve the accuracy and relevance of a model's generated responses.

Why? RAG enhances the generative capabilities of LLMs by grounding their responses in factual and up-to-date information, reducing hallucinations in generated text.

By matching these terms to their respective descriptions, the ML engineer can effectively leverage these concepts to build robust and contextually aware generative AI applications on Amazon Bedrock.

問題 #140

An ML engineer is training a simple neural network model. The ML engineer tracks the performance of the model over time on a validation dataset. The model's performance improves substantially at first and then degrades after a specific number of epochs.

Which solutions will mitigate this problem? (Choose two.)

- A. Increase the number of layers.
- **B. Increase dropout in the layers.**
- C. Investigate and reduce the sources of model bias.
- **D. Enable early stopping on the model.**
- E. Increase the number of neurons.

答案： B,D

問題 #141

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