

Amazon AIF-C01考試重點 & AIF-C01套裝



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每個人都有自己的人生規劃，選擇不同得到的就不同，所以說選擇很重要。Testpdf Amazon的AIF-C01考試認證培訓資料是幫助每個IT人士實現自己人生宏偉目標的最好的方式方法，它包括了試題及答案，並且和真實的考試題目不相上下，真的是所謂稱得上是最好的別無二選的培訓資料。

Amazon AIF-C01 Exam Syllabus Topics:

Section	Weight	Objectives
Topic 1: Guidelines for Responsible AI	14%	- Explain bias detection and reduction - Identify risks and mitigation strategies for AI systems - Define responsible AI principles: fairness, transparency, privacy, safety - Describe ethical and societal impacts of AI
Topic 2: Fundamentals of Generative AI	24%	- Define generative AI and foundation models - Differentiate between generative AI and traditional ML - Explain capabilities and use cases of generative AI - Describe concepts: prompts, embeddings, fine-tuning, retrieval-augmented generation (RAG)
Topic 3: Security, Compliance, and Governance for AI Solutions	14%	- Compliance requirements and regulations - Data protection and privacy in AI workflows - Governance frameworks for AI lifecycle - Security controls for AI data and models
Topic 4: Applications of Foundation Models	28%	- Recognize tools for building and deploying generative AI solutions - Explain integration of foundation models into applications - Identify AWS services for generative AI: Amazon Bedrock, Amazon Titan - Describe use cases for text, image, video, and code generation - Define artificial intelligence (AI), machine learning (ML), and deep learning
Topic 5: Fundamentals of AI and ML	20%	- Recognize key concepts: data, models, training, inference, evaluation - Identify types of ML: supervised, unsupervised, reinforcement learning - Describe common ML workflows and lifecycle

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最新的 AWS Certified AI AIF-C01 免費考試真題 (Q329-Q334):

問題 #329

A company wants to improve the accuracy of the responses from a generative AI application. The application uses a foundation model (FM) on Amazon Bedrock.

Which solution meets these requirements MOST cost-effectively?

- A. Fine-tune the FM.
- B. Train a new FM.
- **C. Use prompt engineering.**
- D. Retrain the FM.

答案： C

解題說明：

The company wants to improve the accuracy of a generative AI application using a foundation model (FM) on Amazon Bedrock in the most cost-effective way. Prompt engineering involves optimizing the input prompts to guide the FM to produce more accurate responses without modifying the model itself. This approach is cost-effective because it does not require additional computational resources or training, unlike fine-tuning or retraining.

Exact Extract from AWS AI Documents:

From the AWS Bedrock User Guide:

"Prompt engineering is a cost-effective technique to improve the performance of foundation models. By crafting precise and context-rich prompts, users can guide the model to generate more accurate and relevant responses without the need for fine-tuning or retraining." (Source: AWS Bedrock User Guide, Prompt Engineering for Foundation Models) Detailed Option A: Fine-tune the FM. Fine-tuning involves retraining the FM on a custom dataset, which requires computational resources, time, and cost (e.g., for Amazon Bedrock fine-tuning jobs). It is not the most cost-effective solution.

Option B: Retrain the FM. Retraining an FM from scratch is highly resource-intensive and expensive, as it requires large datasets and significant compute power. This is not cost-effective.

Option C: Train a new FM. Training a new FM is the most expensive option, as it involves building a model from the ground up, requiring extensive data, compute resources, and expertise. This is not cost-effective.

Option D: Use prompt engineering. This is the correct answer. Prompt engineering adjusts the input prompts to improve the FM's responses without incurring additional compute costs, making it the most cost-effective solution for improving accuracy on Amazon Bedrock.

Reference:

AWS Bedrock User Guide: Prompt Engineering for Foundation Models

(<https://docs.aws.amazon.com/bedrock/latest/userguide/prompt-engineering.html>) AWS AI Practitioner Learning Path: Module on Generative AI Optimization Amazon Bedrock Developer Guide: Cost Optimization for Generative AI

(<https://aws.amazon.com/bedrock/>)

問題 #330

A company is developing a new model to predict the prices of specific items. The model performed well on the training dataset.

When the company deployed the model to production, the model's performance decreased significantly.

What should the company do to mitigate this problem?

- A. Reduce the volume of data that is used in training.
- **B. Increase the volume of data that is used in training.**
- C. Increase the model training time.
- D. Add hyperparameters to the model.

答案： B

解題說明：

When a model performs well on the training data but poorly in production, it is often due to overfitting.

Overfitting occurs when a model learns patterns and noise specific to the training data, which does not generalize well to new, unseen data in production. Increasing the volume of data used in training can help mitigate this problem by providing a more diverse and

representative dataset, which helps the model generalize better.

* Option C (Correct): "Increase the volume of data that is used in training": Increasing the data volume can help the model learn more generalized patterns rather than specific features of the training dataset, reducing overfitting and improving performance in production.

* Option A: "Reduce the volume of data that is used in training" is incorrect, as reducing data volume would likely worsen the overfitting problem.

* Option B: "Add hyperparameters to the model" is incorrect because adding hyperparameters alone does not address the issue of data diversity or model generalization.

* Option D: "Increase the model training time" is incorrect because simply increasing training time does not prevent overfitting; the model needs more diverse data.

AWS AI Practitioner References:

* Best Practices for Model Training on AWS: AWS recommends using a larger and more diverse training dataset to improve a model's generalization capability and reduce the risk of overfitting.

問題 #331

Why does overfitting occur in ML models?

- A. The model training stops early because of an early stopping criterion.
- **B. The training dataset does not represent all possible input values.**
- C. The training dataset contains too many features.
- D. The model contains a regularization method.

答案: B

解題說明:

Overfitting occurs when an ML model learns the training data too well, including noise and patterns that do not generalize to new data. A key cause of overfitting is when the training dataset does not represent all possible input values, leading the model to over-specialize on the limited data it was trained on, failing to generalize to unseen data.

Exact Extract from AWS AI Documents:

From the Amazon SageMaker Developer Guide:

"Overfitting often occurs when the training dataset is not representative of the broader population of possible inputs, causing the model to memorize specific patterns, including noise, rather than learning generalizable features." (Source: Amazon SageMaker Developer Guide, Model Evaluation and Overfitting) Detailed Option A: The training dataset does not represent all possible input values. This is the correct answer. If the training dataset lacks diversity and does not cover the range of possible inputs, the model overfits by learning patterns specific to the training data, failing to generalize.

Option B: The model contains a regularization method. Regularization methods (e.g., L2 regularization) are used to prevent overfitting, not cause it. This option is incorrect.

Option C: The model training stops early because of an early stopping criterion. Early stopping is a technique to prevent overfitting by halting training when performance on a validation set degrades. It does not cause overfitting.

Option D: The training dataset contains too many features. While too many features can contribute to overfitting (e.g., by increasing model complexity), this is less directly tied to overfitting than a non-representative dataset. The dataset's representativeness is the primary cause.

Reference:

Amazon SageMaker Developer Guide: Model Evaluation and Overfitting (<https://docs.aws.amazon.com/sagemaker/latest/dg/model-evaluation.html>) AWS AI Practitioner Learning Path: Module on Model Performance and Evaluation AWS Documentation: Understanding Overfitting (<https://aws.amazon.com/machine-learning/>)

問題 #332

A financial company is developing a generative AI application for loan approval decisions. The company needs the application output to be responsible and fair.

- A. Use a deep learning model with many hidden layers.
- B. Keep the model's decision-making process a secret to protect proprietary algorithms.
- C. Continuously monitor the model's performance on a static test dataset.
- **D. Review the training data to check for biases. Include data from all demographics in the training data.**

答案: D

解題說明:

The correct answer is A, as the most effective way to ensure fairness in AI systems is to audit and diversify training data. AWS Responsible AI documentation stresses that bias originates primarily from unbalanced or incomplete datasets. By including samples from all demographic groups, the model learns patterns that generalize fairly across populations. AWS SageMaker Clarify supports data bias detection and offers fairness metrics like demographic parity and equal opportunity difference. Deeper models (option B) or secrecy (option C) do not mitigate bias and may worsen transparency. Static test datasets (option D) fail to capture evolving data distributions. Therefore, ongoing bias reviews and diverse datasets form the foundation of responsible generative AI for financial use cases.

Referenced AWS AI/ML Documents and Study Guides:

AWS Responsible AI Whitepaper - Fairness and Bias Mitigation

Amazon SageMaker Clarify Documentation - Bias Detection

問題 #333

A company wants to improve multiple ML models.

Select the correct technique from the following list of use cases. Each technique should be selected one time or not at all. (Select THREE.) Few-shot learning Fine-tuning Retrieval Augmented Generation (RAG) Zero-shot learning

答案:

解題說明:

AWS References:

Amazon Bedrock - Retrieval Augmented Generation (RAG)

AWS Generative AI Guide - Zero-shot & Few-shot learning

問題 #334

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