

AIF-C01日本語受験教科書 & AIF-C01最新試験



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Amazon AIF-C01 認定試験の出題範囲:

トピック	出題範囲
トピック 1	Guidelines for Responsible AI: This domain highlights the ethical considerations and best practices for deploying AI solutions responsibly, including ensuring fairness and transparency. It is aimed at AI practitioners, including data scientists and compliance officers, who are involved in the development and deployment of AI systems and need to adhere to ethical standards.
トピック 2	Fundamentals of AI and ML: This domain covers the fundamental concepts of artificial intelligence (AI) and machine learning (ML), including core algorithms and principles. It is aimed at individuals new to AI and ML, such as entry-level data scientists and IT professionals.
トピック 3	Applications of Foundation Models: This domain examines how foundation models, like large language models, are used in practical applications. It is designed for those who need to understand the real-world implementation of these models, including solution architects and data engineers who work with AI technologies to solve complex problems.

トピック 4	• Fundamentals of Generative AI: This domain explores the basics of generative AI, focusing on techniques for creating new content from learned patterns, including text and image generation. It targets professionals interested in understanding generative models, such as developers and researchers in AI.
トピック 5	• Security, Compliance, and Governance for AI Solutions: This domain covers the security measures, compliance requirements, and governance practices essential for managing AI solutions. It targets security professionals, compliance officers, and IT managers responsible for safeguarding AI systems, ensuring regulatory compliance, and implementing effective governance frameworks.

Amazon AWS Certified AI Practitioner 認定 AIF-C01 試験問題 (Q74-Q79):

質問 # 74

A company needs to train an ML model to classify images of different types of animals. The company has a large dataset of labeled images and will not label more data. Which type of learning should the company use to train the model?

- A. Reinforcement learning
- B. Supervised learning
- C. Unsupervised learning
- D. Active learning

正解: B

解説:

Supervised learning is appropriate when the dataset is labeled. The model uses this data to learn patterns and classify images.

Unsupervised learning, reinforcement learning, and active learning are not suitable since they either require unlabeled data or different problem settings. References: AWS Machine Learning Best Practices.

質問 # 75

Which strategy evaluates the accuracy of a foundation model (FM) that is used in image classification tasks?

- A. Assess the color accuracy of images processed by the model.
- B. Count the number of layers in the neural network.
- C. Calculate the total cost of resources used by the model.
- D. Measure the model's accuracy against a predefined benchmark dataset.

正解: D

質問 # 76

A company wants to use generative AI to increase developer productivity and software development. The company wants to use Amazon Q Developer.

What can Amazon Q Developer do to help the company meet these requirements?

- A. Convert audio files to text documents by using ML models.
- B. Run an application without provisioning or managing servers.
- C. Create software snippets, reference tracking, and open-source license tracking.
- D. Enable voice commands for coding and providing natural language search.

正解: C

解説:

Amazon Q Developer is a tool designed to assist developers in increasing productivity by generating code snippets, managing reference tracking, and handling open-source license tracking. These features help developers by automating parts of the software development process.

Option A (Correct): "Create software snippets, reference tracking, and open-source license tracking". This is the correct answer because these are key features that help developers streamline and automate tasks, thus improving productivity.

Option B: "Run an application without provisioning or managing servers" is incorrect as it refers to AWS Lambda or AWS Fargate, not Amazon Q Developer.

Option C: "Enable voice commands for coding and providing natural language search" is incorrect because this is not a function of Amazon Q Developer.

Option D: "Convert audio files to text documents by using ML models" is incorrect as this refers to Amazon Transcribe, not Amazon Q Developer.

AWS AI Practitioner Reference:

Amazon Q Developer Features: AWS documentation outlines how Amazon Q Developer supports developers by offering features that reduce manual effort and improve efficiency.

質問 # 77

Which AWS service helps select foundation models (FMs) for generative AI use cases?

- A. Amazon Bedrock
- B. Amazon Rekognition
- C. Amazon Q Developer
- D. Amazon Personalize

正解: A

解説:

Comprehensive and Detailed Explanation From Exact AWS AI documents:

Amazon Bedrock provides access to multiple foundation models from different providers and enables customers to evaluate, compare, and select the most appropriate model for their generative AI use cases.

Amazon Bedrock:

- * Offers a choice of foundation models
- * Supports model evaluation and customization
- * Abstracts infrastructure management

Why the other options are incorrect:

- * Amazon Personalize (A) is a recommendation service.
- * Amazon Q Developer (C) is a coding assistant.
- * Amazon Rekognition (D) is an image and video analysis service.

AWS AI document references:

- * Amazon Bedrock Overview
- * Choosing Foundation Models on AWS
- * Generative AI Model Selection Guidance

質問 # 78

A company is building an application that needs to generate synthetic data that is based on existing data.

Which type of model can the company use to meet this requirement?

- A. WaveNet
- B. Generative adversarial network (GAN)
- C. XGBoost
- D. Residual neural network

正解: B

解説:

Generative adversarial networks (GANs) are a type of deep learning model used for generating synthetic data based on existing datasets. GANs consist of two neural networks (a generator and a discriminator) that work together to create realistic data.

* Option A (Correct): "Generative adversarial network (GAN)": This is the correct answer because GANs are specifically designed for generating synthetic data that closely resembles the real data they are trained on.

* Option B: "XGBoost" is a gradient boosting algorithm for classification and regression tasks, not for generating synthetic data.

* Option C: "Residual neural network" is primarily used for improving the performance of deep networks, not for generating synthetic data.

* Option D: "WaveNet" is a model architecture designed for generating raw audio waveforms, not synthetic data in general.

AWS AI Practitioner References:

* GANs on AWS for Synthetic Data Generation: AWS supports the use of GANs for creating synthetic datasets, which can be crucial for applications like training machine learning models in environments where real data is scarce or sensitive.

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