

# AIF-C01考古題推薦 & AIF-C01參考資料



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## Amazon AIF-C01 考試大綱：

主題	簡介
主題 1	<ul style="list-style-type: none"><li>• 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.</li></ul>
主題 2	<ul style="list-style-type: none"><li>• 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.</li></ul>
主題 3	<ul style="list-style-type: none"><li>• 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.</li></ul>
主題 4	<ul style="list-style-type: none"><li>• 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.</li></ul>
主題 5	<ul style="list-style-type: none"><li>• 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.</li></ul>

>> AIF-C01考古題推薦 <<

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快。

## 最新的 AWS Certified AI AIF-C01 免費考試真題 (Q63-Q68):

### 問題 #63

A financial institution is building an AI solution to make loan approval decisions by using a foundation model (FM). For security and audit purposes, the company needs the AI solution's decisions to be explainable.

Which factor relates to the explainability of the AI solution's decisions?

- A. Number of hyperparameters
- B. Training time
- **C. Model complexity**
- D. Deployment time

答案: C

解題說明:

The financial institution needs an AI solution for loan approval decisions to be explainable for security and audit purposes.

Explainability refers to the ability to understand and interpret how a model makes decisions.

Model complexity directly impacts explainability: simpler models (e.g., logistic regression) are more interpretable, while complex models (e.g., deep neural networks) are harder to explain, often behaving like "black boxes." Exact Extract from AWS AI Documents:

From the Amazon SageMaker Developer Guide:

"Model complexity affects the explainability of AI solutions. Simpler models, such as linear regression, are inherently more interpretable, while complex models, such as deep neural networks, may require additional tools like SageMaker Clarify to provide insights into their decision-making processes." (Source: Amazon SageMaker Developer Guide, Explainability with SageMaker Clarify) Detailed Explanation:

Option A: Model complexity/This is the correct answer. The complexity of the model directly influences how easily its decisions can be explained, a critical factor for audit and security purposes in loan approvals.

Option B: Training time/Training time refers to how long it takes to train the model, which does not directly impact the explainability of its decisions.

Option C: Number of hyperparameters/While hyperparameters affect model performance, they do not directly relate to explainability. A model with many hyperparameters might still be explainable if it is a simple model.

Option D: Deployment time/Deployment time refers to the time taken to deploy the model to production, which is unrelated to the explainability of its decisions.

References:

Amazon SageMaker Developer Guide: Explainability with SageMaker Clarify (<https://docs.aws.amazon.com/sagemaker/latest/dg/clarify-explainability.html>)

AWS AI Practitioner Learning Path: Module on Responsible AI and Explainability AWS Documentation: Explainable AI (<https://aws.amazon.com/machine-learning/responsible-ai/>)

### 問題 #64

An AI practitioner is determining the appropriate data type for various use cases.

Select the correct data type from the following list for each use case. Select each data type one time.

Build a sentiment analysis model for social media posts.

Select...  
 Image data  
 Tabular data  
 Text data  
 Time series data

Train a self-driving car to recognize traffic signs.

Select...  
 Image data  
 Tabular data  
 Text data  
 Time series data

Optimize ad campaigns by using customer demographic data and purchase history.

Select...  
 Image data  
 Tabular data  
 Text data  
 Time series data

Forecast stock prices by using historical price data.

Select...  
 Image data  
 Tabular data  
 Text data  
 Time series data

答案:

解題說明:

Build a sentiment analysis model for social media posts.

Select...  
 Image data  
 Tabular data  
 Text data  
 Time series data

Train a self-driving car to recognize traffic signs.

Select...  
 Image data  
 Tabular data  
 Text data  
 Time series data

Optimize ad campaigns by using customer demographic data and purchase history.

Select...  
 Image data  
 Tabular data  
 Text data  
 Time series data

Forecast stock prices by using historical price data.

Select...  
 Image data  
 Tabular data  
 Text data  
 Time series data

Explanation:

Sentiment analysis # Text data

Traffic sign recognition # Image data

Customer demographics & purchase history # Tabular data

Stock price forecasting # Time series data

AWS classifies NLP tasks like sentiment analysis under text data

Computer vision tasks such as object and sign recognition use image data Structured rows and columns (demographics, transactions) are tabular data Sequential data indexed by time (prices, metrics) is time series data

### 問題 #65

A company has built an image classification model to predict plant diseases from photos of plant leaves. The company wants to evaluate how many images the model classified correctly.

Which evaluation metric should the company use to measure the model's performance?

- A. Accuracy

- B. Learning rate
- C. Root mean squared error (RMSE)
- D. R-squared score

答案: A

問題 #66

Which option is a use case for generative AI models?

- A. Creating photorealistic images from text descriptions for digital marketing
- B. Improving network security by using intrusion detection systems
- C. Analyzing financial data to forecast stock market trends
- D. Enhancing database performance by using optimized indexing

答案: A

問題 #67

A company is building a generative AI application and is reviewing foundation models (FMs). The company needs to consider multiple FM characteristics.

Select the correct FM characteristic from the following list for each definition. Each FM characteristic should be selected one time. (Select THREE.)

Amount of information that can fit in a single prompt

Select...

Select...

Concurrency

Context windows

Latency

amazon

Length of time it takes for a model to generate an output

Select...

Select...

Concurrency

Context windows

Latency

Multiple users invoking an application endpoint simultaneously

Select...

Select...

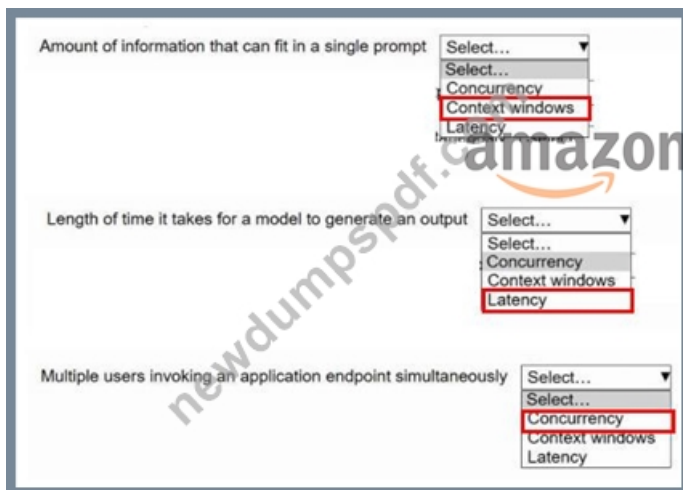
Concurrency

Context windows

Latency

答案:

解題說明:



## 問題 #68

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