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Amazon AIF-C01 考試大綱：

主題	簡介
主題 1	• 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.
主題 2	• 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.
主題 3	• 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.
主題 4	• 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.
主題 5	• 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.

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最新的 AWS Certified AI AIF-C01 免費考試真題 (Q286-Q291):

問題 #286
A customer service team is developing an application to analyze customer feedback and automatically classify the feedback into different categories. The categories include product quality, customer service, and delivery experience.
Which AI concept does this scenario present?

- A. Natural language processing (NLP)
- B. Computer vision
- C. Fraud detection
- D. Recommendation systems

答案：A

解題說明：
The scenario involves analyzing customer feedback and automatically classifying it into categories such as product quality, customer service, and delivery experience. This task requires processing and understanding textual data, which is a core application of natural language processing (NLP). NLP encompasses techniques for analyzing, interpreting, and generating human language, including tasks like text classification, sentiment analysis, and topic modeling, all of which are relevant to this use case.
Exact Extract from AWS AI Documents:
From the AWS AI Practitioner Learning Path:
"Natural Language Processing (NLP) enables machines to understand and process human language.
Common NLP tasks include text classification, sentiment analysis, named entity recognition, and topic modeling. Services like Amazon Comprehend can be used to classify text into predefined categories based on content." (Source: AWS AI Practitioner Learning Path, Module on AI and ML Concepts) Detailed Explanation:
* Option A: Computer visionComputer vision involves processing and analyzing visual data, such as images or videos. Since the scenario deals with textual customer feedback, computer vision is not applicable.
* Option B: Natural language processing (NLP)This is the correct answer. The task of classifying customer feedback into categories requires understanding and processing text, which is an NLP task.
AWS services like Amazon Comprehend are specifically designed for such text classification tasks.
* Option C: Recommendation systemsRecommendation systems suggest items or content based on user preferences or behavior.
The scenario does not involve recommending products or services but rather classifying feedback, so this option is incorrect.
* Option D: Fraud detectionFraud detection involves identifying anomalous or fraudulent activities, typically in financial or transactional data. The scenario focuses on text classification, not anomaly detection, making this option irrelevant.
References:
AWS AI Practitioner Learning Path: Module on AI and ML Concepts
Amazon Comprehend Developer Guide: Text Classification (https://docs.aws.amazon.com/comprehend/latest /dg/how-classification.html)
AWS Documentation: Introduction to NLP (https://aws.amazon.com/what-is/natural-language-processing/)

問題 #287
Which term is an example of output vulnerability?

- A. Data poisoning
- B. Data leakage
- C. Parameter stealing
- D. Model misuse

答案：B

問題 #288

Which type of AI model makes numeric predictions?

- A. Diffusion
- B. Multi-modal
- C. Regression
- D. Transformer

答案：**C**

解題說明：

The regression model is a fundamental type of supervised machine learning algorithm that is specifically designed to make numeric predictions. In regression tasks, the goal is to predict a continuous numerical value based on input features. This contrasts with classification, which predicts discrete labels.

According to AWS documentation:

"Regression models are used for predicting a continuous value. Examples include predicting house prices, stock market prices, or customer credit limits." (Reference: AWS Machine Learning Foundations: Regression, AWS AI Practitioner Study Guide) Option A (Diffusion) relates to generative models and is not primarily used for numeric prediction.

Option C (Transformer) is a neural network architecture, often used for sequence modeling tasks (e.g., NLP).

Option D (Multi-modal) describes a model handling multiple data types, not specifically numeric prediction.

Reference:

AWS AI/ML Learning Path - Regression Models

AWS Certified AI Practitioner Study Guide (Pearson)

問題 #289

A company wants to use a pre-trained generative AI model to generate content for its marketing campaigns. The company needs to ensure that the generated content aligns with the company's brand voice and messaging requirements.

Which solution meets these requirements?

- A. Increase the model's complexity by adding more layers to the model's architecture.
- B. Create effective prompts that provide clear instructions and context to guide the model's generation.
- C. Optimize the model's architecture and hyperparameters to improve the model's overall performance.
- D. Select a large, diverse dataset to pre-train a new generative model.

答案：**B**

問題 #290

A company wants to implement a single environment for both data and AI development. Developers across different teams must be able to access the environment and work together. The developers must be able to build and share models and generative AI applications securely in the environment.

Which AWS solution will meet these requirements?

- A. Amazon Q Developer
- B. Amazon SageMaker Unified Studio
- C. Amazon Lex
- D. Amazon Bedrock PartyRock

答案：**B**

解題說明：

Amazon SageMaker Unified Studio provides a collaborative, secure, and centralized environment for end- to-end data, machine learning, and generative AI development. AWS documentation describes Unified Studio as a single interface where teams can prepare data, build models, train and deploy machine learning solutions, and develop generative AI applications.

In this use case, multiple teams must collaborate in a shared environment. SageMaker Unified Studio supports role-based access control, shared workspaces, and secure resource management, allowing developers to safely collaborate without compromising data or models. AWS highlights that Unified Studio integrates notebooks, pipelines, model development tools, and generative AI workflows into a consistent experience.

The service also supports model sharing, versioning, and reuse, enabling teams to build upon each other's work. This directly satisfies the requirement to build and share both traditional ML models and generative AI applications securely.

The other options are not suitable. Amazon Lex is a conversational AI service, not a development environment. Amazon Bedrock PartyRock is a no-code generative AI playground and is not intended for enterprise collaboration. Amazon Q Developer focuses on developer productivity and code assistance, not unified AI development environments.

AWS positions SageMaker Unified Studio as the foundation for collaborative AI development at scale, making it the correct choice.

問題 #291

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