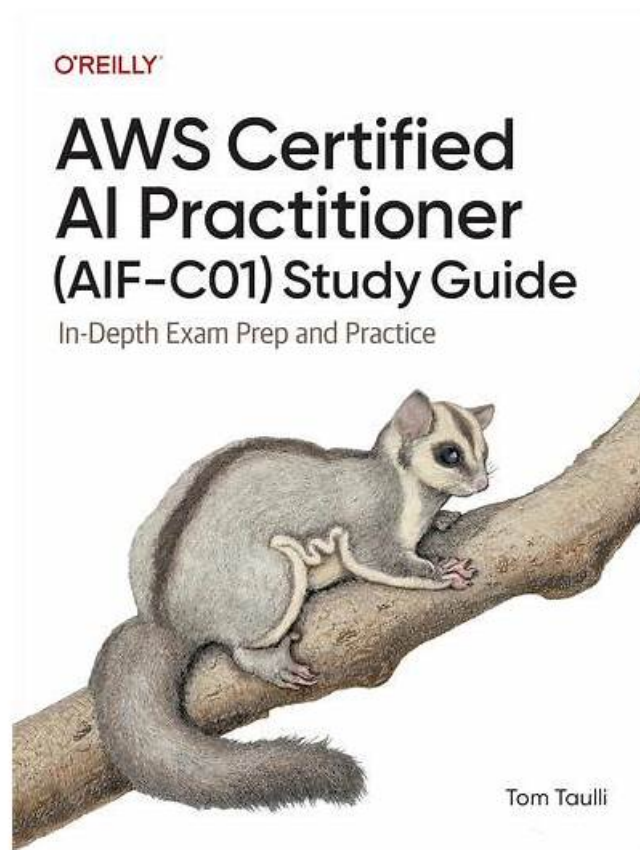


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## Amazon AWS Certified AI Practitioner Sample Questions (Q180-Q185):

### NEW QUESTION # 180

Which option is an example of unsupervised learning?

- A. A model that learns to play chess by using trial and error
- B. A model that predicts a house's price based on various features
- C. A model that classifies images as dogs or cats
- D. A model that groups customers based on their purchase history

**Answer: D**

Explanation:

Unsupervised learning involves training a model on unlabeled data, letting it find patterns or groupings on its own, without explicit outputs provided. Clustering is a primary unsupervised learning technique.

Option A is correct: Grouping customers based on purchase history (without predefined categories) is clustering, a classic unsupervised task.

B and C are supervised learning (classification and regression, respectively).

D is reinforcement learning, not unsupervised learning.

"Unsupervised learning involves training on data without labels and is often used for clustering or dimensionality reduction."

(Reference: AWS Certified AI Practitioner Official Study Guide, AWS ML Concepts)

"Unsupervised learning involves training on data without labels and is often used for clustering or dimensionality reduction."

(Reference: AWS Certified AI Practitioner Official Study Guide, AWS ML Concepts)

### NEW QUESTION # 181

A company is using a generative AI model to develop a digital assistant. The model's responses occasionally include undesirable and potentially harmful content. Select the correct Amazon Bedrock filter policy from the following list for each mitigation action. Each filter policy should be selected one time. (Select FOUR.)

- \* Content filters
- \* Contextual grounding check
- \* Denied topics
- \* Word filters

The screenshot shows the Amazon Bedrock console interface for configuring filter policies. There are four dropdown menus, each with a 'Select...' button and a list of options: 'Content filters', 'Contextual grounding check', 'Denied topics', and 'Word filters'. The first dropdown is for 'Block input prompts or model responses that contain harmful content such as hate, insults, violence, or misconduct'. The second is for 'Avoid subjects related to illegal investment advice or legal advice'. The third is for 'Detect and block specific offensive terms'. The fourth is for 'Detect and filter out information in the model's responses that is not grounded in the provided source information'. A large 'amazon' watermark is visible across the center of the image.

**Answer:**

Explanation:

Block input prompts or model responses that contain harmful content such as hate, insults, violence, or misconduct

Select...

- Select...
- Content filters
- Contextual grounding check
- Denied topics
- Word filters

Avoid subjects related to illegal investment advice or legal advice

Select...

- Select...
- Content filters
- Contextual grounding check
- Denied topics
- Word filters

Detect and block specific offensive terms

Select...

- Select...
- Content filters
- Contextual grounding check
- Denied topics
- Word filters

Detect and filter out information in the model's responses that is not grounded in the provided source information

Select...

- Select...
- Content filters
- Contextual grounding check
- Denied topics
- Word filters

Reference:

AWS Bedrock User Guide: Guardrails for Responsible AI (<https://docs.aws.amazon.com/bedrock/latest/userguide/guardrails.html>)

AWS AI Practitioner Learning Path: Module on Responsible AI and Model Safety Amazon Bedrock Developer Guide: Configuring Guardrails (<https://aws.amazon.com/bedrock/>)

### NEW QUESTION # 182

A company wants to fine-tune an ML model that is hosted on Amazon Bedrock. The company wants to use its own sensitive data that is stored in private databases in a VPC. The data needs to stay within the company's private network.

Which solution will meet these requirements?

- A. Use AWS Key Management Service (AWS KMS) keys to encrypt the data.
- B. Use AWS PrivateLink to connect the VPC and Amazon Bedrock.
- C. Restrict access to Amazon Bedrock by using an AWS Identity and Access Management (IAM) service role.
- D. Restrict access to Amazon Bedrock by using an AWS Identity and Access Management (IAM) resource policy.

**Answer: B**

Explanation:

The company wants to fine-tune an ML model on Amazon Bedrock using sensitive data stored in private databases within a VPC, ensuring the data remains within its private network. AWS PrivateLink provides a secure, private connection between a VPC and AWS services like Amazon Bedrock, allowing data to stay within the company's network without traversing the public internet. This meets the requirement for maintaining data privacy during fine-tuning.

Exact Extract from AWS AI Documents:

From the AWS Bedrock User Guide:

"AWS PrivateLink enables you to securely connect your VPC to Amazon Bedrock without exposing data to the public internet. This is particularly useful for fine-tuning models with sensitive data, as it ensures that data remains within your private network." (Source: AWS Bedrock User Guide, Security and Networking) Detailed Explanation:

Option A: Restrict access to Amazon Bedrock by using an AWS Identity and Access Management (IAM) service role. While IAM service roles control access to Amazon Bedrock, they do not address the requirement of keeping data within the private network during data transfer. This option is insufficient.

Option B: Restrict access to Amazon Bedrock by using an AWS Identity and Access Management (IAM) resource policy. IAM resource policies define permissions for Bedrock resources but do not ensure that data stays within the private network. This option is incorrect.

Option C: Use AWS PrivateLink to connect the VPC and Amazon Bedrock. This is the correct answer. AWS PrivateLink creates a secure, private connection between the VPC and Amazon Bedrock, ensuring that sensitive data does not leave the private network during fine-tuning, as required.

Option D: Use AWS Key Management Service (AWS KMS) keys to encrypt the data. While AWS KMS can encrypt data, encryption alone does not guarantee that data remains within the private network during transfer.

This option does not fully meet the requirement.

References:

AWS Bedrock User Guide: Security and Networking (<https://docs.aws.amazon.com/bedrock/latest/userguide/security.html>)

AWS Documentation: AWS PrivateLink (<https://aws.amazon.com/privatelink/>) AWS AI Practitioner Learning Path: Module on Security and Networking for AI/ML Services

### NEW QUESTION # 183

How can companies use large language models (LLMs) securely on Amazon Bedrock?

- A. Enable AWS Audit Manager for automatic model evaluation jobs.
- B. Enable Amazon Bedrock automatic model evaluation jobs.
- C. Design clear and specific prompts. Configure AWS Identity and Access Management (IAM) roles and policies by using least privilege access.
- D. Use Amazon CloudWatch Logs to make models explainable and to monitor for bias.

**Answer: C**

Explanation:

To securely use large language models (LLMs) on Amazon Bedrock, companies should design clear and specific prompts to avoid unintended outputs and ensure proper configuration of AWS Identity and Access Management (IAM) roles and policies with the principle of least privilege. This approach limits access to sensitive resources and minimizes the potential impact of security incidents.

Option A (Correct): "Design clear and specific prompts. Configure AWS Identity and Access Management (IAM) roles and policies by using least privilege access". This is the correct answer as it directly addresses both security practices in prompt design and access management.

Option B: "Enable AWS Audit Manager for automatic model evaluation jobs" is incorrect because Audit Manager is for compliance and auditing, not directly related to secure LLM usage.

Option C: "Enable Amazon Bedrock automatic model evaluation jobs" is incorrect because Bedrock does not provide automatic model evaluation jobs specifically for security purposes.

Option D: "Use Amazon CloudWatch Logs to make models explainable and to monitor for bias" is incorrect because CloudWatch Logs are used for monitoring and not directly for making models explainable or secure.

AWS AI Practitioner Reference:

Secure AI Practices on AWS: AWS recommends configuring IAM roles and using least privilege access to ensure secure usage of AI models.

### NEW QUESTION # 184

An AI practitioner is writing software code. The AI practitioner wants to quickly develop a test case and create documentation for the code.

- A. Research and write test cases. Then, create test cases and add documentation.
- B. Upload the code to an online coding assistant.
- C. Use Amazon Q Developer in an integrated development environment (IDE).
- D. Develop an application to use foundation models (FMs).

**Answer: C**

Explanation:

Comprehensive and Detailed

Amazon Q Developer is an AI-powered coding assistant integrated into IDEs (e.g., VS Code, JetBrains). It can:

Generate unit tests.

Create documentation.

Suggest code completions.

This is the fastest and most effective solution for this scenario.

Reference:

Amazon Q Developer - AWS Documentation

### NEW QUESTION # 185

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