AIF-C01 Q&As

Amazon AWS Certified AI Practitioner

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QUESTION 1

A company wants to develop an educational game where users answer questions such as the following: "A jar contains six red, four green, and three yellow marbles. What is the probability of choosing a green marble from the jar?"

Which solution meets these requirements with the LEAST operational overhead?

A. Use supervised learning to create a regression model that will predict probability.

B. Use reinforcement learning to train a model to return the probability.

C. Use code that will calculate probability by using simple rules and computations.

D. Use unsupervised learning to create a model that will estimate probability density.

Correct Answer: C

The problem involves a simple probability calculation that can be handled efficiently by straightforward mathematical rules and computations. Using machine learning techniques would introduce unnecessary complexity and operational overhead. Option C (Correct): "Use code that will calculate probability by using simple rules and computations":This is the correct answer because it directly solves the problem with minimal overhead, using basic probability rules. Option A:"Use supervised learning to create a regression model" is incorrect as it overcomplicates the solution for a simple probability problem. Option B:"Use reinforcement learning to train a model" is incorrect because reinforcement learning is not needed for a simple probability calculation. Option D:"Use unsupervised learning to create a model" is incorrect as unsupervised learning is not applicable to this task. AWS AI Practitioner References: Choosing the Right Solution for AI Tasks:AWS recommends using the simplest and most efficient approach to solve a given problem, avoiding unnecessary machine learning techniques for straightforward tasks.

QUESTION 2

A company has petabytes of unlabeled customer data to use for an advertisement campaign. The company wants to classify its customers into tiers to advertise and promote the company\\'s products.

Which methodology should the company use to meet these requirements?

A. Supervised learning

B. Unsupervised learning

C. Reinforcement learning

D. Reinforcement learning from human feedback (RLHF)

Correct Answer: B

Unsupervised learning is the correct methodology for classifying customers into tiers when the data is unlabeled, as it does not require predefined labels or outputs.

QUESTION 3

Which feature of Amazon OpenSearch Service gives companies the ability to build vector database applications?

A. Integration with Amazon S3 for object storage

B. Support for geospatial indexing and queries

C. Scalable index management and nearest neighbor search capability

D. Ability to perform real-time analysis on streaming data

Correct Answer: C

Amazon OpenSearch Service (formerly Amazon Elasticsearch Service) has introduced capabilities to support vector search, which allows companies to build vector database applications. This is particularly useful in machine learning, where

vector representations (embeddings) of data are often used to capture semantic meaning. Scalable index management and nearest neighbor search capabilityare the core features enabling vector database functionalities in OpenSearch. The

service allows users to index high-dimensional vectors and perform efficient nearest neighbor searches, which are crucial for tasks such as recommendation systems, anomaly detection, and semantic search.

Here is why option C is the correct answer:

Scalable Index Management:OpenSearch Service supports scalable indexing of vector data. This means you can index a large volume of high-dimensional vectors and manage these indexes in a cost-effective and performance-optimized

way. The service leverages underlying AWS infrastructure to ensure that indexing scales seamlessly with data size.

Nearest Neighbor Search Capability:OpenSearch Service\\'s nearest neighbor search capability allows for fast and efficient searches over vector data. This is essential for applicationslike product recommendation engines, where the system

needs to quickly find the most similar items based on a user\\'s query or behavior.

AWS AI Practitioner References:

The other options do not directly relate to building vector database applications:

A. Integration with Amazon S3 for object storageis about storing data objects, not vector-based searching or indexing.

B. Support for geospatial indexing and queriesis related to location-based data, not vectors used in machine learning.

D. Ability to perform real-time analysis on streaming datarelates to analyzing incoming data streams, which is different from the vector search capabilities.

QUESTION 4

A company manually reviews all submitted resumes in PDF format. As the company grows, the company expects the volume of resumes to exceed the company\\'s review capacity. The company needs an automated system to convert the PDF resumes into plain text format for additional processing.

Which AWS service meets this requirement?

A. Amazon Textract

B. Amazon Personalize

C. Amazon Lex

D. Amazon Transcribe

Correct Answer: A

Amazon Textract is a service that automatically extracts text and data from scanned documents, including PDFs. It is the best choice for converting resumes from PDF format to plain text for further processing.

QUESTION 5

A company wants to create a chatbot by using a foundation model (FM) on Amazon Bedrock. The FM needs to access encrypted data that is stored in an Amazon S3 bucket.

The data is encrypted with Amazon S3 managed keys (SSE-S3).

The FM encounters a failure when attempting to access the S3 bucket data.

Which solution will meet these requirements?

A. Ensure that the role that Amazon Bedrock assumes has permission to decrypt data with the correct encryption key.

B. Set the access permissions for the S3 buckets to allow public access to enable access over the internet.

C. Use prompt engineering techniques to tell the model to look for information in Amazon S3.

D. Ensure that the S3 data does not contain sensitive information.

Correct Answer: A

Amazon Bedrock needs the appropriate IAM role with permission to access and decrypt data stored in Amazon S3. If the data is encrypted with Amazon S3 managed keys (SSE- S3), the role that Amazon Bedrock assumes must have the

required permissions to access and decrypt the encrypted data.

Option A (Correct): "Ensure that the role that Amazon Bedrock assumes has permission to decrypt data with the correct encryption key":This is the correct solution as it ensures that the AI model can access the encrypted data securely

without changing the encryption settings or compromising data security. Option B:"Set the access permissions for the S3 buckets to allow public access" is incorrect because it violates security best practices by exposing sensitive data to the

public.

Option C:"Use prompt engineering techniques to tell the model to look for information in Amazon S3" is incorrect as it does not address the encryption and permission issue.

Option D:"Ensure that the S3 data does not contain sensitive information" is incorrect because it does not solve the access problem related to encryption.

AWS AI Practitioner

References:

Managing Access to Encrypted Data in AWS:AWS recommends using proper IAM roles and policies to control access to encrypted data stored in S3.