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Amazon AWS Certified AI Practitioner Sample Questions (Q229-Q234):

NEW QUESTION # 229

A company wants to create an application by using Amazon Bedrock. The company has a limited budget and prefers flexibility without long-term commitment.

Which Amazon Bedrock pricing model meets these requirements?

- A. Model customization
- B. Provisioned Throughput
- C. Spot Instance
- **D. On-Demand**

Answer: D

NEW QUESTION # 230

A company wants to develop ML applications to improve business operations and efficiency.

Select the correct ML paradigm from the following list for each use case. Each ML paradigm should be selected one or more times.
(Select FOUR.)

* Supervised learning

* Unsupervised learning

Binary classification

Multi-class classification

K-means clustering

Dimensionality reduction

Answer:

Explanation:

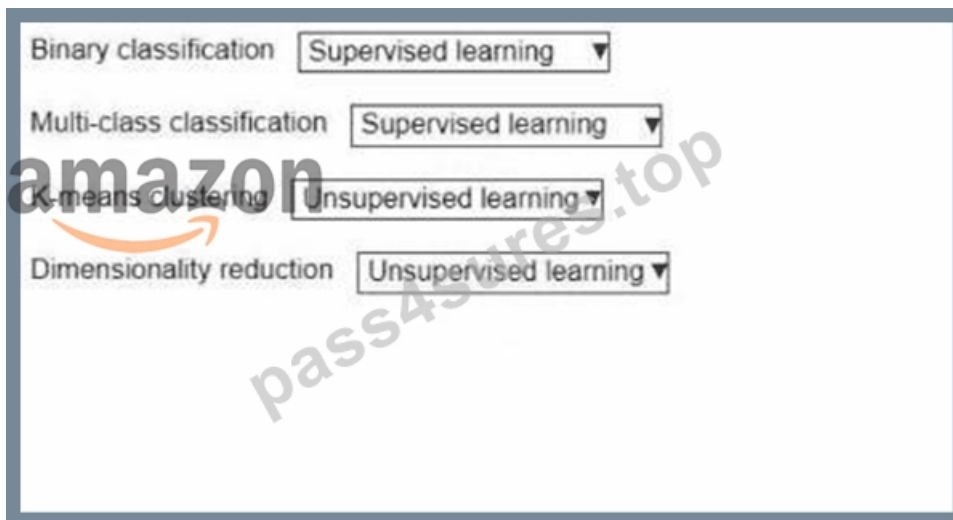
Binary classification

Multi-class classification

K-means clustering

Dimensionality reduction

Explanation:



The company is developing ML applications for various use cases, and the task is to select the correct ML paradigm (supervised or unsupervised learning) for each. Supervised learning involves training a model on labeled data to make predictions, while unsupervised learning identifies patterns or structures in unlabeled data. Each use case aligns with one of these paradigms based on its requirements.

Exact Extract from AWS AI Documents:

From the AWS AI Practitioner Learning Path:

"Supervised learning uses labeled data to train models for tasks like classification (e.g., binary or multi-class classification), where the model predicts a category. Unsupervised learning works with unlabeled data for tasks like clustering (e.g., K-means clustering) or dimensionality reduction, identifying patterns or reducing data complexity without predefined labels." (Source: AWS AI Practitioner Learning Path, Module on Machine Learning Strategies) Detailed Explanation:

Binary classification: Supervised learning Binary classification involves predicting one of two classes (e.g., yes/no, spam/not spam) using labeled data, making it a supervised learning task. The model learns from examples where the correct class is provided.

Multi-class classification: Supervised learning Multi-class classification extends binary classification to predict one of multiple classes (e.g., categorizing items into several groups). Like binary classification, it requires labeled data, so it falls under supervised learning.

K-means clustering: Unsupervised learning K-means clustering groups data into clusters based on similarity, without requiring labeled data. This is a classic unsupervised learning task, as the algorithm identifies patterns in the data on its own.

Dimensionality reduction: Unsupervised learning Dimensionality reduction (e.g., using techniques like PCA) reduces the number of features in a dataset while preserving important information. It does not require labeled data, making it an unsupervised learning task.

Hotspot Selection Analysis:

The hotspot lists four use cases, each with a dropdown containing "Select...", "Supervised learning," and

"Unsupervised learning." The correct selections are:

Binary classification: Supervised learning

Multi-class classification: Supervised learning

K-means clustering: Unsupervised learning

Dimensionality reduction: Unsupervised learning

Each paradigm (supervised and unsupervised learning) is used twice, as the question allows for paradigms to be selected one or more times.

References:

AWS AI Practitioner Learning Path: Module on Machine Learning Strategies Amazon SageMaker Developer Guide: Supervised and Unsupervised Learning (<https://docs.aws.amazon.com/sagemaker/latest/dg/algos.html>)

AWS Documentation: Introduction to Machine Learning Paradigms (<https://aws.amazon.com/machine-learning/>)

NEW QUESTION # 231

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

Answer: B

Explanation:

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.

NEW QUESTION # 232

A financial institution is using Amazon Bedrock to develop an AI application. The application is hosted in a VPC. To meet regulatory compliance standards, the VPC is not allowed access to any internet traffic.

Which AWS service or feature will meet these requirements?

- A. Amazon CloudFront
- B. Amazon Macie
- C. Internet gateway
- **D. AWS PrivateLink**

Answer: D

Explanation:

AWS PrivateLink enables private connectivity between VPCs and AWS services without exposing traffic to the public internet. This feature is critical for meeting regulatory compliance standards that require isolation from public internet traffic.

Option A (Correct): "AWS PrivateLink": This is the correct answer because it allows secure access to Amazon Bedrock and other AWS services from a VPC without internet access, ensuring compliance with regulatory standards.

Option B: "Amazon Macie" is incorrect because it is a security service for data classification and protection, not for managing private network traffic.

Option C: "Amazon CloudFront" is incorrect because it is a content delivery network service and does not provide private network connectivity.

Option D: "Internet gateway" is incorrect as it enables internet access, which violates the VPC's no-internet-traffic policy.

AWS AI Practitioner Reference:

AWS PrivateLink Documentation: AWS highlights PrivateLink as a solution for connecting VPCs to AWS services privately, which is essential for organizations with strict regulatory requirements.

NEW QUESTION # 233

Which scenario describes a potential risk and limitation of prompt engineering In the context of a generative AI model?

- A. Properly designed prompts reduce but do not eliminate the risk of data poisoning or model hijacking.
- B. Prompt engineering does not ensure that the model always produces consistent and deterministic outputs, eliminating the need for validation.
- C. Prompt engineering does not ensure that the model will consistently generate highly reliable outputs when working with real-world data.
- **D. Prompt engineering could expose the model to vulnerabilities such as prompt injection attacks.**

Answer: D

NEW QUESTION # 234

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