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Amazon AWS Certified AI Practitioner Sample Questions (Q174-Q179):

NEW QUESTION # 174

A company has developed an ML model to predict real estate sale prices. The company wants to deploy the model to make predictions without managing servers or infrastructure. Which solution meets these requirements?

- A. Deploy the model on an Amazon Elastic Kubernetes Service (Amazon EKS) cluster.
- B. Deploy the model by using Amazon CloudFront with an Amazon S3 integration.
- **C. Deploy the model by using an Amazon SageMaker AI endpoint.**
- D. Deploy the model on an Amazon EC2 instance.

Answer: C

Explanation:

Amazon SageMaker endpoints provide fully managed, serverless model deployment for real-time and batch predictions, allowing companies to deploy ML models without handling any servers or infrastructure management.

* D is correct: SageMaker endpoints let you deploy, scale, and monitor ML models with no infrastructure overhead.

* A and B require infrastructure management.

* C (CloudFront/S3) is not for model deployment, but for static content delivery.

"Amazon SageMaker endpoints allow you to deploy machine learning models for inference without the need to manage underlying infrastructure." (Reference: AWS SageMaker Model Deployment, AWS Certified AI Practitioner Study Guide)

NEW QUESTION # 175

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

The image shows a quiz interface with four use cases, each with a dropdown menu for selecting an ML paradigm. The use cases are: Binary classification, Multi-class classification, K-means clustering, and Dimensionality reduction. The dropdown menus are open, showing the options: Supervised learning and Unsupervised learning. The correct selections are: Binary classification (Supervised learning), Multi-class classification (Supervised learning), K-means clustering (Unsupervised learning), and Dimensionality reduction (Unsupervised learning).

Answer:

Explanation:

The image shows the same quiz interface as above, but with the correct selections highlighted in red boxes. The correct selections are: Binary classification (Supervised learning), Multi-class classification (Supervised learning), K-means clustering (Unsupervised learning), and Dimensionality reduction (Unsupervised learning).

Reference:

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

NEW QUESTION # 176

An AI practitioner has a database of animal photos. The AI practitioner wants to automatically identify and categorize the animals in the photos without manual human effort.

Which strategy meets these requirements?

- A. Inpainting

- B. Object detection
- C. Named entity recognition
- D. Anomaly detection

Answer: B

NEW QUESTION # 177

Which option describes embeddings in the context of AI?

- A. An encryption method for securing sensitive data
- B. A method for visualizing high-dimensional data
- C. A method for compressing large datasets
- D. A numerical method for data representation in a reduced dimensionality space

Answer: D

Explanation:

Embeddings in AI refer to numerical representations of data (e.g., text, images) in a lower-dimensional space, capturing semantic or contextual relationships. They are widely used in NLP and other AI tasks to represent complex data in a format that models can process efficiently.

Exact Extract from AWS AI Documents:

From the AWS AI Practitioner Learning Path:

"Embeddings are numerical representations of data in a reduced dimensionality space. In natural language processing, for example, word or sentence embeddings capture semantic relationships, enabling models to process text efficiently for tasks like classification or similarity search." (Source: AWS AI Practitioner Learning Path, Module on AI Concepts) Detailed Explanation:

* Option A: A method for compressing large datasets While embeddings reduce dimensionality, their primary purpose is not data compression but rather to represent data in a way that preserves meaningful relationships. This option is incorrect.

* Option B: An encryption method for securing sensitive data Embeddings are not related to encryption or data security. They are used for data representation, making this option incorrect.

* Option C: A method for visualizing high-dimensional data While embeddings can sometimes be used in visualization (e.g., t-SNE), their primary role is data representation for model processing, not visualization. This option is misleading.

* Option D: A numerical method for data representation in a reduced dimensionality space This is the correct answer. Embeddings transform complex data into lower-dimensional numerical vectors, preserving semantic or contextual information for use in AI models.

References:

AWS AI Practitioner Learning Path: Module on AI Concepts

Amazon Comprehend Developer Guide: Embeddings for Text Analysis (<https://docs.aws.amazon.com/comprehend/latest/dg/embeddings.html>)

AWS Documentation: What are Embeddings? (<https://aws.amazon.com/what-is/embeddings/>)

NEW QUESTION # 178

An airline company wants to build a conversational AI assistant to answer customer questions about flight schedules, booking, and payments. The company wants to use large language models (LLMs) and a knowledge base to create a text-based chatbot interface.

Which solution will meet these requirements with the LEAST development effort?

- A. Train models on Amazon SageMaker Autopilot.
- B. Develop a Retrieval Augmented Generation (RAG) agent by using Amazon Bedrock.
- C. Fine-tune models on Amazon SageMaker Jumpstart.
- D. Create a Python application by using Amazon Q Developer.

Answer: B

Explanation:

The airline company aims to build a conversational AI assistant using large language models (LLMs) and a knowledge base to create a text-based chatbot with minimal development effort. Retrieval Augmented Generation (RAG) on Amazon Bedrock is an ideal solution because it combines LLMs with a knowledge base to provide accurate, contextually relevant responses without requiring extensive model training or custom development. RAG retrieves relevant information from a knowledge base and uses an LLM to generate responses, simplifying the development process.

Exact Extract from AWS AI Documents:

From the AWS Bedrock User Guide:

"Retrieval Augmented Generation (RAG) in Amazon Bedrock enables developers to build conversational AI applications by combining foundation models with external knowledge bases. This approach minimizes development effort by leveraging pre-trained models and integrating them with data sources, such as FAQs or databases, to provide accurate and contextually relevant responses." (Source: AWS Bedrock User Guide, Retrieval Augmented Generation) Detailed Option A: Train models on Amazon SageMaker Autopilot. SageMaker Autopilot is designed for automated machine learning (AutoML) tasks like classification or regression, not for building conversational AI with LLMs and knowledge bases. It requires significant data preparation and is not optimized for chatbot development, making it less suitable.

Option B: Develop a Retrieval Augmented Generation (RAG) agent by using Amazon Bedrock. This is the correct answer. RAG on Amazon Bedrock allows the company to use pre-trained LLMs and integrate them with a knowledge base (e.g., flight schedules or FAQs) to build a chatbot with minimal effort. It avoids the need for extensive training or coding, aligning with the requirement for least development effort.

Option C: Create a Python application by using Amazon Q Developer. While Amazon Q Developer can assist with code generation, building a chatbot from scratch in Python requires significant development effort, including integrating LLMs and a knowledge base manually, which is more complex than using RAG on Bedrock.

Option D: Fine-tune models on Amazon SageMaker Jumpstart. Fine-tuning models on SageMaker Jumpstart requires preparing training data and customizing LLMs, which involves more effort than using a pre-built RAG solution on Bedrock. This option is not the least effort-intensive.

Reference:

AWS Bedrock User Guide: Retrieval Augmented Generation (<https://docs.aws.amazon.com/bedrock/latest/userguide/rag.html>)

AWS AI Practitioner Learning Path: Module on Generative AI and Conversational AI Amazon Bedrock Developer Guide: Building Conversational AI (<https://aws.amazon.com/bedrock/>)

NEW QUESTION # 179

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