AIF-C01 Q&As

Amazon AWS Certified AI Practitioner

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QUESTION 1

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. Generative adversarial network (GAN)

B. XGBoost

C. Residual neural network

D. WaveNet

Correct Answer: A

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.

QUESTION 2

A company is building a solution to generate images for protective eyewear. The solution must have high accuracy and must minimize the risk of incorrect annotations.

Which solution will meet these requirements?

A. Human-in-the-loop validation by using Amazon SageMaker Ground Truth Plus

B. Data augmentation by using an Amazon Bedrock knowledge base

C. Image recognition by using Amazon Rekognition

D. Data summarization by using Amazon QuickSight

Correct Answer: A

Amazon SageMaker Ground Truth Plus is a managed data labeling service that includes human-in-the-loop (HITL) validation. This solution ensures high accuracy by involving human reviewers to validate the annotations and reduce the

risk of incorrect annotations.

QUESTION 3

Which option is a benefit of ongoing pre-training when fine-tuning a foundation model (FM)?

A. Helps decrease the model\\'s complexity

B. Improves model performance over time

C. Decreases the training time requirement

D. Optimizes model inference time

Correct Answer: B

Ongoing pre-training when fine-tuning a foundation model (FM) improves model performance over time by continuously learning from new data.

QUESTION 4

A company has developed an ML model for image classification. The company wants to deploy the model to production so that a web application can use the model.

The company needs to implement a solution to host the model and serve predictions without managing any of the underlying infrastructure.

Which solution will meet these requirements?

A. Use Amazon SageMaker Serverless Inference to deploy the model.

B. Use Amazon CloudFront to deploy the model.

C. Use Amazon API Gateway to host the model and serve predictions.

D. Use AWS Batch to host the model and serve predictions.

Correct Answer: A

Amazon SageMaker Serverless Inference is the correct solution for deploying an ML model to production in a way that allows a web application to use the model without the need to manage the underlying infrastructure.

Amazon SageMaker Serverless Inferenceprovides a fully managed environment for deploying machine learning models. It automatically provisions, scales, and manages the infrastructure required to host the model, removing the need for the

company to manage servers or other underlying infrastructure.

QUESTION 5

A company wants to use a large language model (LLM) on Amazon Bedrock for sentiment analysis. The company

wants to classify the sentiment of text passages as positive or negative.

Which prompt engineering strategy meets these requirements?

A. Provide examples of text passages with corresponding positive or negative labels in the prompt followed by the new text passage to be classified.

B. Provide a detailed explanation of sentiment analysis and how LLMs work in the prompt.

C. Provide the new text passage to be classified without any additional context or examples.

D. Provide the new text passage with a few examples of unrelated tasks, such as text summarization or question answering.

Correct Answer: A

Providing examples of text passages with corresponding positive or negative labels in the prompt followed by the new text passage to be classified is the correct prompt engineering strategy for using a large language model (LLM) on Amazon Bedrock for sentiment analysis.