

Question AI-102 Explanations - Updated AI-102 Demo

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This repo contains AI-102: Designing and Implementing an Azure AI Solution questions in multiple-choice format. Each question includes explanations for...

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>> Question AI-102 Explanations <<

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Microsoft AI-102 Exam is designed for professionals who want to become certified in designing and implementing AI solutions in Microsoft Azure. AI-102 exam is a part of the Azure AI Engineer Associate certification track and is intended for candidates who have a fundamental understanding of Azure services and AI concepts.

Microsoft Designing and Implementing a Microsoft Azure AI Solution Sample Questions (Q351-Q356):

NEW QUESTION # 351

You have an Azure Cognitive Search resource named Search 1 that is used by multiple apps. You need to secure Search 1. The solution must meet the following requirements:

- * Prevent access to Search1 from the internet.
- * Limit the access of each app to specific queries

What should you do? To answer, select the appropriate options in the answer area. NOTE Each correct answer is worth one point.

Answer Area



To prevent access from the internet: Create a private endpoint.

Configure an IP firewall.

Create a private endpoint.

Use Azure roles.

To limit access to queries: Use Azure roles.

Create a private endpoint.

Use Azure roles.

Use key authentication.

Answer:

Explanation:
Answer Area

To prevent access from the internet: Create a private endpoint.

Configure an IP firewall.

Create a private endpoint.

Use Azure roles.

To limit access to queries: Use Azure roles.

Create a private endpoint.

Use Azure roles.

Use key authentication.

Explanation



NEW QUESTION # 352

Hotspot Question

You have an Azure subscription that is linked to a Microsoft Entra tenant. The subscription ID is x1xx11x1-x111-xxxx-xxxx-x1111xxx11x1 and the tenant ID is 1y1y1yyy-1y1y-y1y1-yy11- y1y1y1111y1.

The subscription contains an Azure OpenAI resource named OpenAI1 that has a primary API key of 1111a111a11a111aaa11a1a1a11aa. OpenAI1 has a deployment named embeddings1 that uses the text-embedding-ada-002 model.

You need to query OpenAI1 and retrieve embeddings for text input.

How should you complete the code? To answer, select the appropriate options in the answer area.

NOTE: Each correct selection is worth one point.

```

Uri endpoint = new Uri("https://openai1.openai.azure.com");
AzureKeyCredential credentials = new AzureKeyCredential("x1xx1x1-x111-xxxx-xxxx-x111xxx11x1
1111a111a11a111aa11a1a1a11a11aa
1y1y1yyy-1y1y-1y1y1-yy11-y1y1y11111y1");

OpenAIClient openAIClient = new (endpoint, credentials);

EmbeddingsOptions embeddingOptions = new EmbeddingsOptions(input_text_string);

var returnValue = openAIClient.GetEmbeddings("embeddings1", embeddingOptions);

foreach (float item in returnValue.Value.Data[0].Embedding)
{
    Console.WriteLine(item);
}

```

Answer:

Explanation:

```

Uri endpoint = new Uri("https://openai1.openai.azure.com");
AzureKeyCredential credentials = new AzureKeyCredential("x1xx1x1-x111-xxxx-xxxx-x111xxx11x1
1111a111a11a111aa11a1a1a11a11aa
1y1y1yyy-1y1y-1y1y1-yy11-y1y1y11111y1");

OpenAIClient openAIClient = new (endpoint, credentials);

EmbeddingsOptions embeddingOptions = new EmbeddingsOptions(input_text_string);

var returnValue = openAIClient.GetEmbeddings("embeddings1", embeddingOptions);

foreach (float item in returnValue.Value.Data[0].Embedding)
{
    Console.WriteLine(item);
}

```

NEW QUESTION # 353

You have an Azure OpenAI model.

You have 500 prompt-completion pairs that will be used as training data to fine-tune the model.

You need to prepare the training data.

Which format should you use for the training data file?

- A. JSONL
- B. TSV
- C. CSV
- D. XML

Answer: A

Explanation:

To fine-tune an Azure OpenAI model, the training data needs to be in JSONL (JSON Lines) format. Each line in the file represents a separate prompt-completion pair in JSON format. This format is required to ensure that Azure OpenAI correctly interprets each pair as an individual training instance.

NEW QUESTION # 354

You are building a model to detect objects in images.

The performance of the model based on training data is shown in the following exhibit.



The screenshot shows the Microsoft Custom Vision interface. The top navigation bar includes 'Training Images', 'Iterations', 'Predictions', 'Train', and 'Quick Test'. The main area is titled 'Iteration 1'. On the left, there are sections for 'Objects' and 'Iterations', with sliders for 'Probability Threshold' (50%) and 'Overlap Threshold' (30%). The central area is the 'Performance' tab, which displays a chart and various metrics. Buttons for 'Publish', 'Delete', and 'Report' are also visible.

Answer:

Explanation:



The screenshot shows the Microsoft Custom Vision interface, identical to the previous one but with a gray border around the central content area. The top navigation bar includes 'Training Images', 'Iterations', 'Predictions', 'Train', and 'Quick Test'. The main area is titled 'Iteration 1'. On the left, there are sections for 'Objects' and 'Iterations', with sliders for 'Probability Threshold' (50%) and 'Overlap Threshold' (30%). The central area is the 'Performance' tab, which displays a chart and various metrics. Buttons for 'Publish', 'Delete', and 'Report' are also visible.

Explanation:

The percentage of false positives is [0].

* The value for the number of true positives divided by the total number of true positives and false negatives is [100].

The screenshot shows the Performance tab of a Custom Vision object detection model after training.

Two key performance metrics are in focus:

* False Positives (FP):

* False positives occur when the model incorrectly predicts an object that isn't present.

* In the provided exhibit, the model shows 0% false positives.

* This means it did not incorrectly classify any non-object as an object.

* Recall (True Positives ÷ (True Positives + False Negatives)):

* This measures how many of the actual objects were correctly detected.

* Formula: Recall = TP / (TP + FN).

* In the performance report, recall is 100%, meaning the model correctly detected all the actual objects (no false negatives).

* False positives: 0%

* Recall (TP ÷ (TP + FN)): 100%

Correct Answers:

* False positives # 0

* Recall # 100

* Custom Vision performance metrics

* Precision, recall, and accuracy in machine learning

NEW QUESTION # 355

You develop a test method to verify the results retrieved from a call to the Computer Vision API. The call is used to analyze the existence of company logos in images. The call returns a collection of brands named brands.

You have the following code segment.

```
foreach (var brand in brands)
{
    if (brand.Confidence >= .75)
        Console.WriteLine($"Logo of {brand.Name} between {brand.Rectangle.X},
{brand.Rectangle.Y} and {brand.Rectangle.W}, {brand.Rectangle.H}");
```

For each of the following statements, select Yes if the statement is true. Otherwise, select No.

NOTE: Each correct selection is worth one point.



Statements	Yes	No
The code will return the name of each detected brand with a confidence equal to or higher than 75 percent.	<input type="radio"/>	<input type="radio"/>
The code will return coordinates for the bottom-left corner of the rectangle that contains the brand logo of the displayed brands.	<input type="radio"/>	<input type="radio"/>
The code will return coordinates for the bottom-right corner of the rectangle that contains the brand logo of the displayed brands.	<input type="radio"/>	<input type="radio"/>

Answer:

Explanation:

Actions	Answer Area
Add a task to the Azure resource.	For the knowledge base, select Show active learning suggestions.
Approve and reject suggestions.	Approve and reject suggestions.
Publish the knowledge base.	Save and train the knowledge base.
Modify the automation task logic app to run an Azure Resource Manager template that creates the Azure Cognitive Services resource.	Publish the knowledge base.
For the knowledge base, select Show active learning suggestions.	
Save and train the knowledge base.	
Select the properties of the Azure Cognitive Services resource.	

Explanation

Statements	Yes	No
The code will return the name of each detected brand with a confidence equal to or higher than 75 percent.	<input type="radio"/>	<input type="radio"/>
The code will return coordinates for the bottom-left corner of the rectangle that contains the brand logo of the displayed brands.	<input type="radio"/>	<input type="radio"/>
The code will return coordinates for the bottom-right corner of the rectangle that contains the brand logo of the displayed brands.	<input type="radio"/>	

Box 1: Yes

Box 2: Yes

If several logos are detected, or the logo image and the stylized brand name are detected as two separate logos, it starts numbering them from the bottom-left corner.

Box 3: No

Reference:

<https://docs.microsoft.com/en-us/azure/cognitive-services/computer-vision/concept-brand-detection>

NEW QUESTION # 356

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