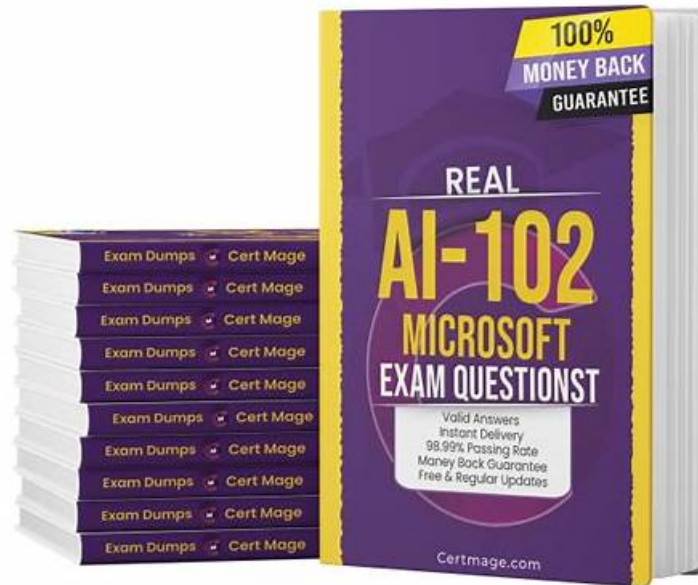


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Prerequisites

Before enrolling in the process of taking the AI-102 Exams, candidates should be skilled in implementing Python and C#, using APIs

and SDKs based on REST to create natural language processing solutions, computer vision solutions, and knowledge mining and communicative AI solutions based on Azure. In addition, such specialists should be knowledgeable of the elements that create the Azure AI portfolio as well as the data storage options. To add more, they should be able to implement AI principles appropriately.

Microsoft Designing and Implementing a Microsoft Azure AI Solution Sample Questions (Q330-Q335):

NEW QUESTION # 330

You have an Azure subscription that contains an Azure AI Content Safety resource named CS1. You need to use the SDK to call CS1 to identify requests that contain harmful content. How should you complete the code? To answer, select the appropriate options in the answer area.

NOTE: Each correct selection is worth one point.

Answer:

Explanation:

Explanation:

To detect harmful content with Azure AI Content Safety using the .NET SDK, you instantiate a `ContentSafetyClient` with the endpoint and key. For text moderation, you construct an `AnalyzeTextOptions` object with the input string (and optionally specify categories, blocklists, etc.). You then call `client`.

`AnalyzeText(AnalyzeTextOptions options)` and inspect the result (e.g., categories analysis and blocklist matches).

Code completed:

```
var client = new ContentSafetyClient(new Uri(endpoint), new AzureKeyCredential(key)); var request = new
AnalyzeTextOptions("what is the weather forecast for Seattle"); Response<AnalyzeTextResult> response =
client.AnalyzeText(request);
```

Microsoft Azure AI References

* Azure AI Content Safety - SDK usage for text analysis with `ContentSafetyClient` and `AnalyzeTextOptions` (Analyze Text API).

* Azure AI Content Safety - Concepts: text categories (hate/sexual/violence/self-harm) and blocklists, returned in `AnalyzeTextResult`.

NEW QUESTION # 331

You use the Custom Vision service to build a classifier.

After training is complete, you need to evaluate the classifier.

Which two metrics are available for review? Each correct answer presents a complete solution. (Choose two.) NOTE: Each correct selection is worth one point.

- A. precision
- B. recall
- C. F-score
- D. area under the curve (AUC)
- E. weighted accuracy

Answer: A,B

Explanation:

The question is about evaluating a Custom Vision classifier after training.

When you train an image classifier in Azure Custom Vision, the service automatically calculates performance metrics to help you evaluate the quality of the model.

* Precision:

* The percentage of correct positive predictions out of all positive predictions made.

* Formula: $\text{Precision} = \text{TP} / (\text{TP} + \text{FP})$

* Helps determine how reliable positive predictions are.

* Recall:

* The percentage of actual positives that were correctly predicted.

* Formula: $\text{Recall} = \text{TP} / (\text{TP} + \text{FN})$

* Helps determine how many of the true positives were captured.

Metrics Provided by Custom Vision: These two metrics are explicitly shown in the Custom Vision portal and via API.

* A. Recall

* Yes, Custom Vision reports recall.

* Correct

- * B. F-score
- * Not directly reported in the Custom Vision portal.
- * Although it can be derived from precision and recall, it is not provided as a direct metric.
- * Incorrect
- * C. Weighted accuracy
- * Not reported by Custom Vision.
- * Incorrect
- * D. Precision
- * Yes, Custom Vision reports precision.
- * Correct
- * E. Area under the curve (AUC)
- * Not reported by Custom Vision.
- * More common in ROC curve analysis, not part of Custom Vision output.
- * Incorrect

Option Analysis

The answer: A. recall, D. precision

- * Evaluate the prediction performance of your classifier in Custom Vision
- * Custom Vision training and evaluation

NEW QUESTION # 332

You are developing an application that includes language translation.

The application will translate text retrieved by using a function named `get_text_to_be_translated`. The text can be in one of many languages. The content of the text must remain within the Americas Azure geography.

You need to develop code to translate the text to a single language.

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

NOTE: Each correct selection is worth one point.

☐

Answer:

Explanation:

☐

NEW QUESTION # 333

You build a Language Understanding model by using the Language Understanding portal.

You export the model as a JSON file as shown in the following sample.

☐

To what does the `Weather.Historic` entity correspond in the utterance?

- A. location
- **B. by month**
- C. chicago
- D. rain

Answer: B

NEW QUESTION # 334

You have a Custom Vision resource named `acvdev` in a development environment.

You have a Custom Vision resource named `acvprod` in a production environment.

In `acvdev`, you build an object detection model named `obj1` in a project named `proj1`.

You need to move `obj1` to `acvprod`.

Which three actions should you perform in sequence? To answer, move the appropriate actions from the list of actions to the answer area and arrange them in the correct order.

☐

Answer:

Explanation:

☐

Explanation

☐

Text Description automatically generated

<https://docs.microsoft.com/en-us/azure/cognitive-services/luis/luis-tutorial-pattern#what-did-this-tutorial-accomp>

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