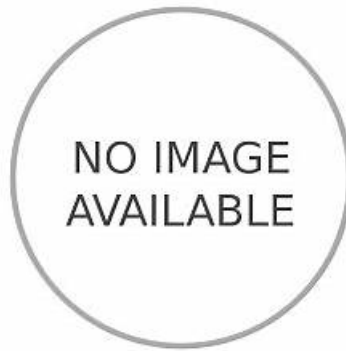


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The AI-102 Certification Exam covers a wide range of topics related to AI, including natural language processing, computer vision, speech recognition, and machine learning. AI-102 exam also covers the use of various tools and technologies that are commonly used in the development and deployment of AI solutions on the Azure platform. These tools include Azure Cognitive Services, Azure Machine Learning, and Azure Bot Service.

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Microsoft AI-102 Exam Syllabus Topics:

Topic	Details

Topic 1	<ul style="list-style-type: none"> Implement an agentic solution: This domain covers creating autonomous AI agents using Microsoft Foundry Agent Service and Framework, implementing multi-agent workflows, and testing and deploying intelligent agents.
Topic 2	<ul style="list-style-type: none"> Implement natural language processing solutions: This domain involves text and speech processing, including sentiment analysis, translation, speech-to-text and text-to-speech implementation, building language understanding models, and creating question answering systems.
Topic 3	<ul style="list-style-type: none"> Plan and manage an Azure AI solution: This domain covers selecting appropriate Azure AI services for various solution types, planning and deploying resources following Responsible AI principles, managing authentication and costs, and implementing content moderation and safety controls.
Topic 4	<ul style="list-style-type: none"> Implement generative AI solutions: This domain focuses on building solutions with Microsoft Foundry and Azure OpenAI, including deploying models, implementing prompt flows and RAG patterns, generating content, and optimizing through parameter tuning and prompt engineering.

The AI-102 Certification Exam covers a wide range of topics, including designing AI solutions, implementing AI workflows, deploying AI models, and maintaining AI solutions. AI-102 exam is designed for professionals who have experience with Azure services, data science, and machine learning. Designing and Implementing a Microsoft Azure AI Solution certification exam is designed to test a candidate's knowledge of Azure Cognitive Services, Azure Machine Learning, and other Azure AI tools.

Microsoft Designing and Implementing a Microsoft Azure AI Solution Sample Questions (Q75-Q80):

NEW QUESTION # 75

You have an Azure subscription that contains an Azure AI Content Safety resource named Resource1 and a storage account named storage1.

You create a blob container named container1 and upload a sample set of image files to container1.

You need to validate whether Resource1 can identify images that contain potential violence.

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

NOTE: Each correct selection is worth one point.

Answer:

Explanation:

Explanation:

To validate that your Azure AI Content Safety resource can identify images containing potential violence, you must call the Image Analyze operation of Content Safety. The REST endpoint for this operation is:

POST {endpoint}/contentsafety/image:analyze?api-version=2024-09-01

This operation analyzes an image for the four harm categories Hate, SelfHarm, Sexual, and Violence.

Therefore, the correct base path is /contentsafety, and the correct operation is image analyze (shown in the hotspot as /imageanalyze).

Microsoft References

REST API: Analyze Image - POST {endpoint}/contentsafety/image:analyze?api-version=2024-09-01 ; categories include Hate, SelfHarm, Sexual, and Violence. Microsoft Learn Quickstart: Analyze image content with Azure AI Content Safety (overview and examples). Microsoft Learn Harm categories concept (lists Violence among supported categories). Microsoft Learn

NEW QUESTION # 76

Your company uses an Azure Cognitive Services solution to detect faces in uploaded images. The method to detect the faces uses the following code.

You discover that the solution frequently fails to detect faces in blurred images and in images that contain sideways faces.

- A. Use the Computer Vision service instead of the Face service.
- **B. Change the detection model.**
- C. Use a different version of the Face API.

- D. Use the Identify method instead of the Detect method.

Answer: B

Explanation:

You need to increase the likelihood that the solution can detect faces in blurred images and images that contain sideways faces.

What should you do?

Explanation:

Evaluate different models.

The best way to compare the performances of the detection models is to use them on a sample dataset. We recommend calling the Face - Detect API on a variety of images, especially images of many faces or of faces that are difficult to see, using each detection model. Pay attention to the number of faces that each model returns.

Reference:

<https://docs.microsoft.com/en-us/azure/cognitive-services/face/face-api-how-to-topics/specify-detection-model>

NEW QUESTION # 77

Note: This question is part of a series of questions that present the same scenario. Each question in the series contains a unique solution that might meet the stated goals. Some question sets might have more than one correct solution, while others might not have a correct solution.

After you answer a question in this section, you will NOT be able to return to it. As a result, these questions will not appear in the review screen.

You build a language model by using a Language Understanding service. The language model is used to search for information on a contact list by using an intent named FindContact.

A conversational expert provides you with the following list of phrases to use for training.

Find contacts in London. Who do I know in Seattle?

Search for contacts in Ukraine.

You need to implement the phrase list in Language Understanding.

Solution: You create a new intent for location.

Does this meet the goal?

- A. Yes
- **B. No**

Answer: B

Explanation:

The scenario involves a Language Understanding (LUIS) or Conversational Language Understanding (CLU) model that has:

* An intent called FindContact (used for searching a contact list).

* Training phrases like:

* "Find contacts in London"

* "Who do I know in Seattle?"

* "Search for contacts in Ukraine"

The model must recognize locations (London, Seattle, Ukraine) inside the FindContact intent.

* The proposed solution is to create a new intent for location.

* This is not correct because:

* Intents represent what the user wants to do (the action, e.g., FindContact).

* Entities represent details within the user's utterance (the data, e.g., location).

* Here, the intent is already defined: FindContact.

* Location should be modeled as an entity (Location entity), not as a separate intent.

Creating a new intent for each location (London, Seattle, Ukraine) would fragment the model and make it harder to generalize.

Instead, the model should capture location as a parameter of the single intent FindContact.

* Keep the existing FindContact intent.

* Add an entity for location (prebuilt GeographyV2 in LUIS or "Location" entity in CLU).

* Train the model so that London, Seattle, Ukraine are recognized as entity values inside the FindContact intent.

The answer: B. No

* Intents and entities in Language Understanding

* Prebuilt entity: GeographyV2

NEW QUESTION # 78

Note: This question is part of a series of questions that present the same scenario. Each question in the series contains a unique solution that might meet the stated goals. Some question sets might have more than one correct solution, while others might not have a correct solution.

After you answer a question in this section, you will NOT be able to return to it. As a result, these questions will not appear in the review screen.

You build a language model by using a Language Understanding service. The language model is used to search for information on a contact list by using an intent named FindContact.

A conversational expert provides you with the following list of phrases to use for training.

- Find contacts in London.
- Who do I know in Seattle?
- Search for contacts in Ukraine.

You need to implement the phrase list in Conversational Language Understanding.

Solution: You create a new intent for location.

Does this meet the goal?

- A. Yes
- B. No

Answer: B

Explanation:

The model should have an Entity "Location" that will help in finding the contacts.

Reference:

<https://docs.microsoft.com/en-us/azure/cognitive-services/luis/luis-concept-intent>

NEW QUESTION # 79

Match the types of workloads to the appropriate scenarios.

To answer, drag the appropriate workload type from the column on the left to its scenario on the right. Each workload type may be used once, more than once, or not at all.

NOTE: Each correct match is worth one point.

Answer:

Explanation:

Explanation

NEW QUESTION # 80

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