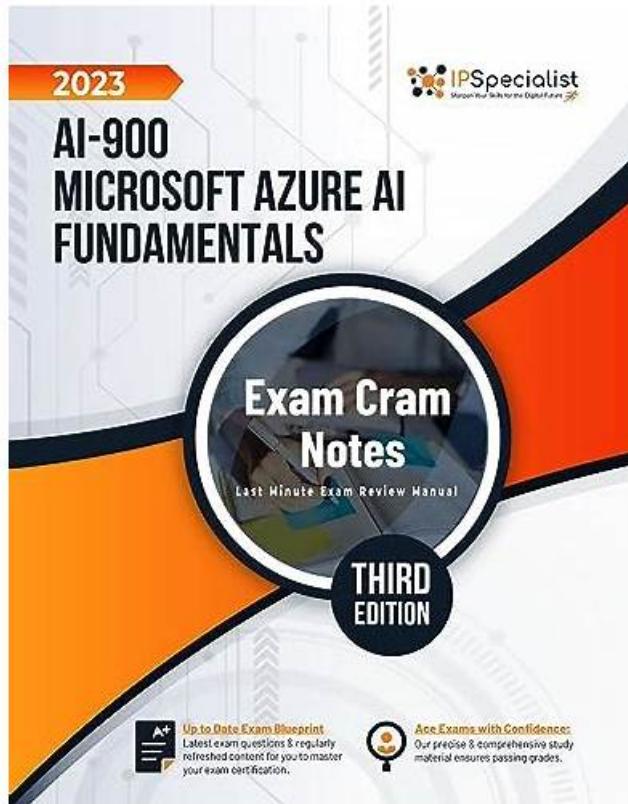


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Microsoft Azure AI Fundamentals Sample Questions (Q288-Q293):

NEW QUESTION # 288

Which AI service should you use to create a bot from a frequently asked questions (FAQ) document?

- A. QnA Maker
- B. Text Analytics
- C. Language Understanding (LUIS)
- D. Speech

Answer: A

Explanation:

Section: Describe features of conversational AI workloads on Azure

Explanation/Reference:

NEW QUESTION # 289

To complete the sentence, select the appropriate option in the answer area.

Answer Area

 Microsoft

An AI solution that helps photographers take better portrait photographs by providing feedback on exposure, noise, and occlusion is an example of facial detection. analysis. detection. recognition.

Answer:

Explanation:

Answer Area

An AI solution that helps photographers take better portrait photographs by providing feedback on exposure, noise, and occlusion is an example of facial detection. analysis. detection. recognition.



NEW QUESTION # 290

Select the answer that correctly completes the sentence.

Answer Area

You can use the Azure AI Custom Vision service to train an object detection model by using your own images.



Answer:

Explanation:

Answer Area

You can use the **Azure AI Custom Vision** service to train an object detection model by using your own images.



Explanation:

Answer Area

You can use the **Azure AI Custom Vision** service to train an object detection model by using your own images.

The correct answer is Azure AI Custom Vision.

According to the Microsoft Azure AI Fundamentals (AI-900) official study guide and the Microsoft Learn module "Explore computer vision in Azure", the Azure AI Custom Vision service is specifically designed to allow users to train, test, and deploy custom image classification and object detection models using their own images.

The Azure AI Custom Vision service extends the capabilities of Azure's general-purpose Computer Vision API by enabling organizations to upload their own labeled datasets, define custom tags (labels), and train models that are optimized for their specific use cases. This makes it ideal for object detection scenarios-such as detecting equipment in a manufacturing line, identifying products on store shelves, or recognizing medical images-where general-purpose models may not suffice.

By contrast, the Azure AI Computer Vision service provides pre-built models for tasks such as image description, tagging, face detection, and OCR (optical character recognition). It does not allow users to train their own models with custom data. Similarly, Azure AI Document Intelligence is used for extracting structured information from documents (forms, receipts, invoices), and Azure Video Analyzer for Media focuses on analyzing video content for insights and metadata extraction.

The AI-900 study guide emphasizes that the Custom Vision service supports two key model types:

* Image Classification - categorizing entire images based on predefined tags.

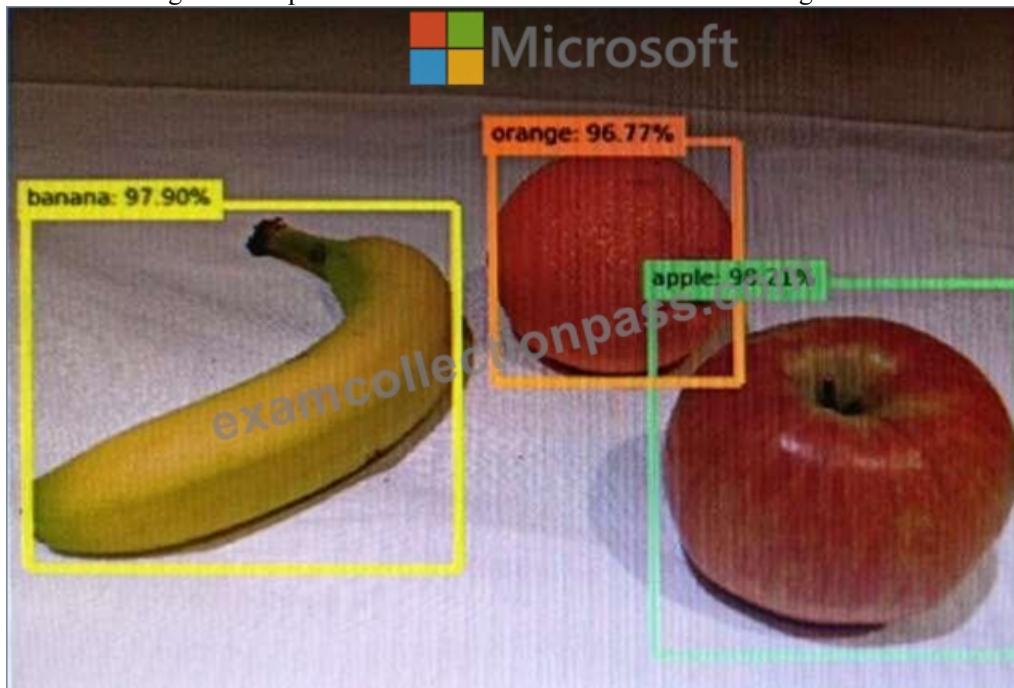
* Object Detection - identifying and locating multiple objects within an image by drawing bounding boxes.

Therefore, when the question specifies "train an object detection model by using your own images," the correct Azure service is Azure AI Custom Vision, as it provides the necessary tools for training, evaluating, and deploying custom computer vision models tailored to a user's dataset.

Hence, the verified correct answer is: Azure AI Custom Vision.

NEW QUESTION # 291

You send an image to a Computer Vision API and receive back the annotated image shown in the exhibit.



Which type of computer vision was used?

- A. optical character recognition (OCR)
- B. semantic segmentation
- C. object detection
- D. image classification

Answer: C

Explanation:

Section: Describe features of computer vision workloads on Azure

Explanation:

Object detection is similar to tagging, but the API returns the bounding box coordinates (in pixels) for each object found. For example, if an image contains a dog, cat and person, the Detect operation will list those objects together with their coordinates in the image. You can use this functionality to process the relationships between the objects in an image. It also lets you determine whether there are multiple instances of the same tag in an image.

The Detect API applies tags based on the objects or living things identified in the image. There is currently no formal relationship between the tagging taxonomy and the object detection taxonomy. At a conceptual level, the Detect API only finds objects and living things, while the Tag API can also include contextual terms like "indoor", which can't be localized with bounding boxes.

Reference:

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

NEW QUESTION # 292

Match the types of machine learning to the appropriate scenarios.

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

NOTE: Each correct selection is worth one point.

Machine Learning Types	Answer Area
Facial detection	Machine Learning Type Separate images of polar bears and brown bears.
Facial recognition	Machine Learning Type Determine the location of a bear in a photo.
Image classification	Machine Learning Type Determine which pixels in an image are part of a bear.
Object detection	
Optical character recognition (OCR)	
Semantic segmentation	

Answer:

Explanation:

Machine Learning types

Machine Learning Types	Answer Area
Facial detection	Image classification Type Separate images of polar bears and brown bears.
Facial recognition	Object detection Type Determine the location of a bear in a photo.
Image classification	Semantic segmentation Type Determine which pixels in an image are part of a bear.
Object detection	
Optical character recognition (OCR)	
Semantic segmentation	

Reference:

<https://developers.google.com/machine-learning/practica/image-classification>

<https://docs.microsoft.com/en-us/dotnet/machine-learning/tutorials/object-detection-model-builder>

<https://nanonets.com/blog/how-to-do-semantic-segmentation-using-deep-learning/>

NEW QUESTION # 293

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