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Study guide for Exam AI-900: Microsoft Azure AI Fundamentals | Microsoft Learn

Study guide for Exam AI-900: Microsoft Azure AI Fundamentals

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Purpose of this document

This study guide should help you understand what to expect on the exam and includes a summary of the topics the exam might cover and links to additional resources. The information and materials in this document should help you focus your studies as you prepare for the exam.

 Expand table

Useful links	Description
Review the skills measured as of April 24, 2024	This list represents the skills measured AFTER the date provided. Study this list if you plan to take the exam AFTER that date.
Review the skills measured prior to April 24, 2024	Study this list of skills if you take your exam PRIOR to the date provided.
Change log	You can go directly to the change log if you want to see the changes that will be made on the date provided.
How to earn the certification	Some certifications only require passing one exam, while others require passing multiple exams.
Certification renewal	Microsoft associate, expert, and specialty certifications expire annually. You can renew by passing a free online assessment on Microsoft Learn.
Your Microsoft Learn profile	Connecting your certification profile to Microsoft Learn allows you to schedule and renew exams and share and print certificates.
Exam scoring and score reports	A score of 700 or greater is required to pass.
Exam sandbox	You can explore the exam environment by visiting our exam sandbox.
Request accommodations	If you use assistive devices, require extra time, or need modification to any part of the exam experience, you can request an

<https://learn.microsoft.com/en-us/certifications/certifications/resources/study-guides/ai-900>

1/12

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Microsoft Azure AI Fundamentals Sample Questions (Q170-Q175):


NEW QUESTION # 170

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

Answer Area

Returning a bounding box that indicates the location of a vehicle in an image is an example of

- image classification.
- object detection.
- optical character recognizer (OCR).
- semantic segmentation.



Answer:

Explanation:

Answer Area

Returning a bounding box that indicates the location of a vehicle in an image is an example of

- image classification.
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Explanation:

Answer Area

Returning a bounding box that indicates the location of a vehicle in an image is an example of

- image classification.
- object detection.**
- optical character recognizer (OCR).
- semantic segmentation.



The correct answer is object detection. According to the Microsoft Azure AI Fundamentals (AI-900) official study materials and Microsoft Learn module "Explore computer vision", object detection is the process of identifying and locating objects within an image or video. The primary characteristic of object detection, as emphasized in the study guide, is its ability to return a bounding box around each detected object along with a corresponding label or class.

In this question, the task involves returning a bounding box that indicates the location of a vehicle in an image. This is the exact definition of object detection - identifying that the object exists (a vehicle) and determining its position within the frame. Microsoft Learn clearly differentiates this from other computer vision tasks. Image classification, for example, only determines what an image contains as a whole (for instance, "this image contains a vehicle"), but it does not indicate where in the image the object is located. Optical character recognition (OCR) is specifically used for extracting printed or handwritten text from images, and semantic segmentation involves classifying every pixel in an image to understand boundaries in greater detail, often used in autonomous driving or medical imaging.

The official AI-900 guide highlights object detection as one of the key computer vision workloads supported by Azure Computer Vision, Custom Vision, and Azure Cognitive Services. These services are designed to detect multiple instances of various object types in a single image, outputting bounding boxes and confidence scores for each.

Therefore, based on the AI-900 official curriculum and Microsoft Learn concepts, returning a bounding box that shows the location of a vehicle is a textbook example of object detection, as it involves both recognition and localization of the object within the image frame.

NEW QUESTION # 171

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

Answer Area

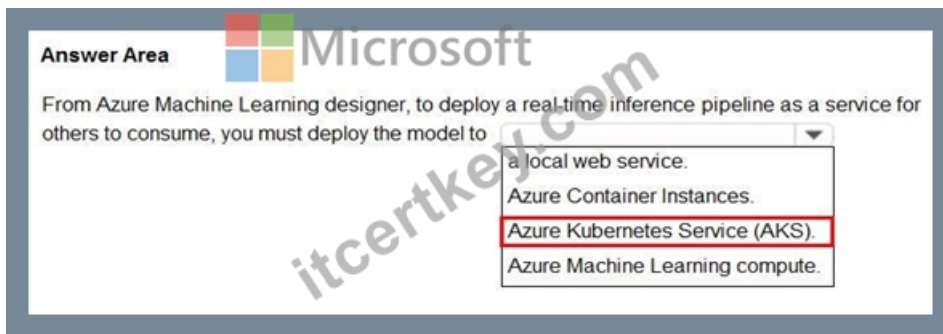
From Azure Machine Learning designer, to deploy a real-time inference pipeline as a service for others to consume, you must deploy the model to

- a local web service.
- Azure Container Instances.
- Azure Kubernetes Service (AKS).
- Azure Machine Learning compute.



Answer:

Explanation:

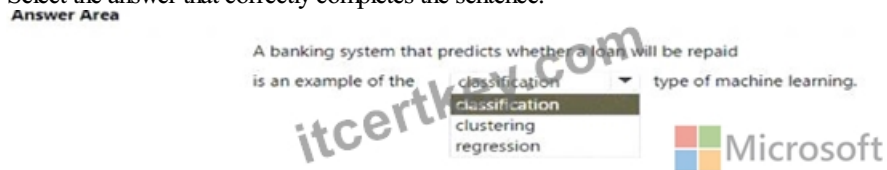


Reference:

<https://docs.microsoft.com/en-us/azure/machine-learning/concept-designer#deploy>

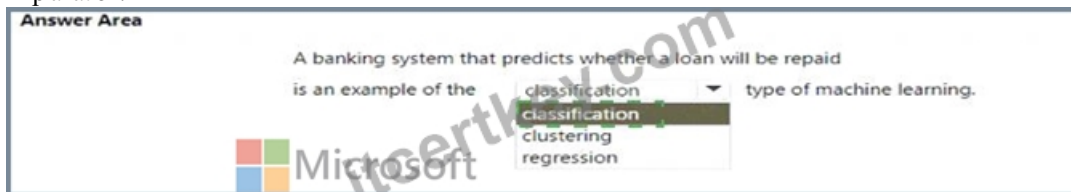
NEW QUESTION # 172

Select the answer that correctly completes the sentence.

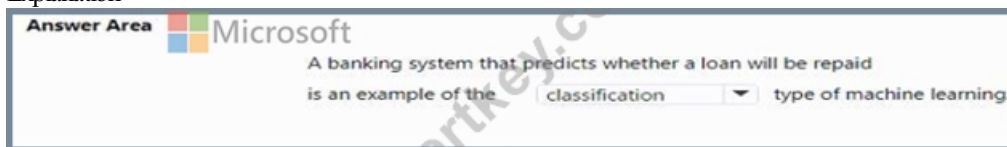


Answer:

Explanation:



Explanation



NEW QUESTION # 173

Match the Azure OpenAI large language model (LLM) process to the appropriate task.

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

NOTE: Each correct match is worth one point.

Processes

Classifying

Generating

Summarizing

Translating

Answer Area

Detect the genre of a work of fiction.

Create a list of bullet points based on text input.

Create advertising slogans from a product description.

Answer:

Explanation:

Processes	Answer Area
Classifying	Classifying: Detect the genre of a work of fiction.
Generating	Summarizing: Create a list of bullet points based on text input.
Summarizing	Generating: Create advertising slogans from a product description.
Translating	

NEW QUESTION # 174

You need to convert handwritten notes into digital text.
Which type of computer vision should you use?

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

Answer: B

Explanation:

According to the Microsoft Azure AI Fundamentals (AI-900) study guide and Microsoft Learn documentation on Azure AI Vision, OCR is a computer vision technology that detects and extracts printed or handwritten text from images, scanned documents, or photographs. The OCR feature in Azure AI Vision can analyze images containing handwritten notes, recognize the characters, and convert them into machine-readable digital text.

This process is ideal for digitizing handwritten meeting notes, forms, or classroom materials. OCR works by identifying text regions in an image, segmenting characters or words, and then applying language models to interpret them correctly. Azure's OCR capabilities support multiple languages and can handle varied handwriting styles.

Other options are incorrect because:

- * B. Object detection identifies and locates objects (like cars, animals, or furniture) within an image, not text.
- * C. Image classification assigns an image to a predefined category (e.g., "dog" or "cat") rather than extracting text.
- * D. Facial detection detects or recognizes human faces, not written text.

Therefore, to convert handwritten notes into digital text, the correct computer vision technique is Optical Character Recognition (OCR).

NEW QUESTION # 175

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