



AI-900^{Q&As}

Microsoft Azure AI Fundamentals

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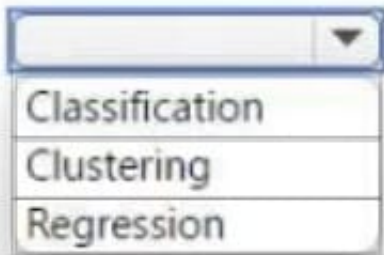


QUESTION 1

HOTSPOT

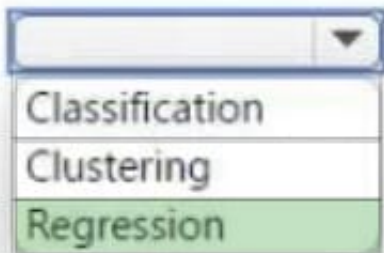
Select the answer that correctly completes the sentence.

Hot Area:



models can be used to predict the sale price of auctioned items.

Correct Answer:



models can be used to predict the sale price of auctioned items.

Box: Regression

You can create a regression model with Azure Machine Learning designer.

Regression is a supervised machine learning technique used to predict numeric values.

Reference:

<https://learn.microsoft.com/en-us/training/modules/create-regression-model-azure-machine-learning-designer/>

QUESTION 2

HOTSPOT

You have an Azure Machine Learning model that predicts product quality. The model has a training dataset that contains 50,000 records. A sample of the data is shown in the following table.



Date	Time	Mass (kg)	Temperature (C)	Quality Test
26/02/2021	15:31:07	2.108	62.5	Pass
26/02/2021	15:31:39	2.099	62.4	Pass
26/02/2021	02:32:21	2.098	66.4	Fail

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

NOTE: Each correct selection is worth one point.

Hot Area:

Statements

Yes

No

Mass (kg) is a feature.

Quality Test is a label.

Temperature (C) is a label.

Correct Answer:

Statements

Yes

No

Mass (kg) is a feature.

Quality Test is a label.

Temperature (C) is a label.

Reference: <https://docs.microsoft.com/en-us/azure/machine-learning/component-reference/filter-based-feature-selection>



QUESTION 3

You are designing an AI system that empowers everyone, including people who have hearing, visual, and other impairments. This is an example of which Microsoft guiding principle for responsible AI?

- A. fairness
- B. inclusiveness
- C. reliability and safety
- D. accountability

Correct Answer: B

Inclusiveness: At Microsoft, we firmly believe everyone should benefit from intelligent technology, meaning it must incorporate and address a broad range of human needs and experiences. For the 1 billion people with disabilities around the world, AI technologies can be a game-changer.

Reference: <https://docs.microsoft.com/en-us/learn/modules/responsible-ai-principles/4-guiding-principles>

QUESTION 4

HOTSPOT

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

NOTE: Each correct selection is worth one point.

Hot Area:

Answer Area

Statements	Yes	No
You can use the Speech service to transcribe a call to text.	<input type="radio"/>	<input type="radio"/>
You can use the Text Analytics service to extract key entities from a call transcript.	<input type="radio"/>	<input type="radio"/>
You can use the Speech service to translate the audio of a call to a different language.	<input type="radio"/>	<input type="radio"/>

Correct Answer:



Answer Area

Statements	Yes	No
You can use the Speech service to transcribe a call to text.	<input checked="" type="radio"/>	<input type="radio"/>
You can use the Text Analytics service to extract key entities from a call transcript.	<input checked="" type="radio"/>	<input type="radio"/>
You can use the Speech service to translate the audio of a call to a different language.	<input checked="" type="radio"/>	<input type="radio"/>

Reference: <https://docs.microsoft.com/en-gb/azure/cognitive-services/text-analytics/overview>
<https://azure.microsoft.com/en-gb/services/cognitive-services/speech-services/>

QUESTION 5

You need to develop a mobile app for employees to scan and store their expenses while travelling. Which type of computer vision should you use?

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

Correct Answer: D

Azure's Computer Vision API includes Optical Character Recognition (OCR) capabilities that extract printed or handwritten text from images. You can extract text from images, such as photos of license plates or containers with serial numbers, as well as from documents - invoices, bills, financial reports, articles, and more.

Reference: <https://docs.microsoft.com/en-us/azure/cognitive-services/computer-vision/concept-recognizing-text>

QUESTION 6

You need to make the written press releases of your company available in a range of languages. Which service should you use?

- A. Speech
- B. Language



C. Translator

D. Personalizer

Correct Answer: C

Translator, an AI service for real-time document and text translation.

Translate text instantly or in batches across more than 100 languages, powered by the latest innovations in machine translation. Support a wide range of use cases, such as translation for call centers, multilingual conversational agents, or inapp communication.

Reference: <https://azure.microsoft.com/en-us/services/cognitive-services/translator/4>

QUESTION 7

HOTSPOT

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

NOTE: Each correct selection is worth one point.

Hot Area:

Answer Area

Statements	Yes	No
A restaurant can use a chatbot to answer queries through Cortana.	<input type="checkbox"/>	<input type="checkbox"/>
A restaurant can use a chatbot to answer inquiries about business hours from a webpage.	<input type="checkbox"/>	<input type="checkbox"/>
A restaurant can use a chatbot to automate responses to customer reviews on an external website.	<input type="checkbox"/>	<input type="checkbox"/>

Correct Answer:



Answer Area

Statements	Yes	No
A restaurant can use a chatbot to answer queries through Cortana.	<input checked="" type="radio"/>	<input type="radio"/>
A restaurant can use a chatbot to answer inquiries about business hours from a webpage.	<input checked="" type="radio"/>	<input type="radio"/>
A restaurant can use a chatbot to automate responses to customer reviews on an external website.	<input checked="" type="radio"/>	<input type="radio"/>

Box 1: Yes

You can create and build a cortana bot using microsoft bot framework.

Note: Connect Cortana Channels

Login to Azure portal > Select the "All Resources" > Select Channels > Select Cortana icon. Let us start to configure the "Cortana "Channel and follow the below steps, at the end of this article you will be able to deploy the Bot into the

Cortana.

Etc.

Box 2: Yes

Language Service is an easy-to-use web-based service that makes it easy to power a question-answer application or chatbot from semi-structured content like FAQ documents and product manuals. With Language Service, developers can

build, train, and publish question and answer bots in minutes.

Box 3: Yes

Reference: <https://www.c-sharpcorner.com/article/create-and-build-a-cortana-bot-using-microsoft-bot-framework/>

QUESTION 8

HOTSPOT

Select the answer that correctly completes the sentence.

Hot Area:



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

analysis.
detection.
recognition.

Correct Answer:

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

analysis.
detection.
recognition.

Box 1: detection.

Attributes are a set of features that can optionally be detected by the Face - Detect API. The following attributes can be detected:

*

Exposure. The exposure of the face in the image. This attribute returns a value between zero and one and an informal rating of underExposure, goodExposure, or overExposure.

*

Noise. The visual noise detected in the face image. This attribute returns a value between zero and one and an informal rating of low, medium, or high.

*



Occlusion. Whether there are objects blocking parts of the face. This attribute returns a Boolean value for eyeOccluded, foreheadOccluded, and mouthOccluded.

*

Etc.

Reference: <https://learn.microsoft.com/en-us/azure/cognitive-services/computer-vision/concept-face-detection>

QUESTION 9

HOTSPOT

Select the answer that correctly completes the sentence.

Hot Area:

Counting the number of animals in an area based on a video feed is an example of

	▼
forecasting.	
computer vision.	
conversational AI.	
anomaly detection.	

Correct Answer:



Counting the number of animals in an area based on a video feed is an example of

	▼
forecasting.	
computer vision.	
conversational AI.	
anomaly detection.	

Reference: <https://docs.microsoft.com/en-us/azure/cognitive-services/computer-vision/overview>

<https://docs.microsoft.com/en-us/azure/cognitive-services/computer-vision/intro-to-spatial-analysis-public-preview>

QUESTION 10

You have a solution that analyzes social media posts to extract the mentions of city names and the city names discussed most frequently. Which type of natural language processing (NLP) workload does the solution use?

- A. speech recognition
- B. sentiment analysis
- C. key phrase extraction
- D. entity recognition

Correct Answer: C

Key phrase extraction is one of the features offered by Azure Cognitive Service for Language, a collection of machine learning and AI algorithms in the cloud for developing intelligent applications that involve written language. Use key phrase extraction to quickly identify the main concepts in text. For example, in the text "The food was delicious and the staff were wonderful.", key phrase extraction will return the main topics: "food" and "wonderful staff".

Reference: <https://learn.microsoft.com/en-us/azure/cognitive-services/language-service/key-phrase-extraction/overview>

QUESTION 11

HOTSPOT

Select the answer that correctly completes the sentence.



Hot Area:

Creating a text transcript of a voice recording is an example of

- a computer vision workload.
- a knowledge mining workload.
- a natural language processing (NLP) workload.
- an anomaly detection workload.

Answer selections

Correct Answer:

Creating a text transcript of a voice recording is an example of

- a computer vision workload.
- a knowledge mining workload.
- a natural language processing (NLP) workload.
- an anomaly detection workload.

Answer selections

QUESTION 12

You have an app that identifies the coordinates of a product in an image of a supermarket shelf. Which service does the app use?

- A. Custom Vision classification
- B. Custom Vision object detection
- C. Computer Vision Read
- D. Computer Vision optical character recognition (OCR)

Correct Answer: B

Object detection is similar to tagging, but the API returns the bounding box coordinates (in pixels) for each object found in the image.

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

QUESTION 13

You have insurance claim reports that are stored as text.

You need to extract key terms from the reports to generate summaries.

Which type of AI workload should you use?

- A. natural language processing



- B. conversational AI
- C. anomaly detection
- D. computer vision

Correct Answer: A

Key phrase extraction is the concept of evaluating the text of a document, or documents, and then identifying the main talking points of the document(s). Key phrase extraction is a part of Text Analytics. The Text Analytics service is a part of the Azure Cognitive Services offerings that can perform advanced natural language processing over raw text.

<https://docs.microsoft.com/en-us/learn/modules/analyze-text-with-text-analytics-service/2-get-started-azure>
<https://docs.microsoft.com/en-us/azure/architecture/data-guide/technology-choices/natural-language-processing>

QUESTION 14

HOTSPOT

Select the answer that correctly completes the sentence.

Hot Area:

Answer Area

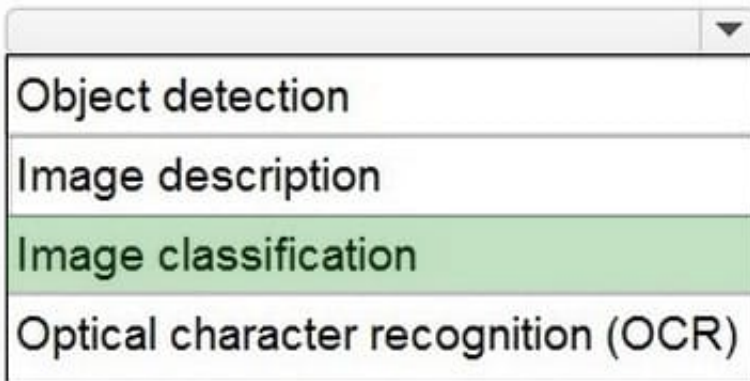
Object detection
Image description
Image classification
Optical character recognition (OCR)

is used to identify multiple types of items in one image.

Correct Answer:



Answer Area



is used to identify multiple types of items in one image.

QUESTION 15

You have a frequently asked questions (FAQ) PDF file.

You need to create a conversational support system based on the FAQ.

Which service should you use?

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

Correct Answer: A

QnA Maker is a cloud-based API service that lets you create a conversational question-and-answer layer over your existing data. Use it to build a knowledge base by extracting questions and answers from your semi-structured content, including FAQs, manuals, and documents.

Reference: <https://azure.microsoft.com/en-us/services/cognitive-services/qna-maker/>