AI-900^{Q&As}

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Microsoft Azure AI Fundamentals

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QUESTION 1

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 Language Service's question answering to query an Azure SQL database.	O	O
You should use Language Service's question answering when you want a knowledge base to provide the same answer to different users who submit similar questions.	O	O
Language Service's question answering can determine the intent of a user utterance.	O	O

Correct Answer:

Answer Area

Statements	Yes	No
You can use Language Service's question answering to query an Azure SQL database.	O	●
You should use Language Service's question answering when you want a knowledge base to provide the same answer to different users who submit similar questions.	●	O
Language Service's question answering can determine the intent of a user utterance.	O	●

Box 1: No

Box 2: Yes

Create a conversational question-and-answer layer over your existing data with question answering, an Azure Cognitive Service for Language feature. Build a knowledge base by adding unstructured documents or extracting questions and

answers from your semi-structured content, including FAQ, manuals, and documents. Get the best answers from the questions and answers in your knowledge base automatically. Your knowledge base gets smarter, too, as it continually

learns from user behavior.

Box 3: No

For Intent recognition use the Speech and Language Understanding (LUIS) services, which enables real-time transcription of audio streams into text, while identifying intent and entities.

Note: Question answering provides cloud-based Natural Language Processing (NLP) that allows you to create a natural conversational layer over your data. It is used to find the most appropriate answer for any input from your custom

knowledge base (KB) of information.

QUESTION 2

You need to build an image tagging solution for social media that tags images of your friends automatically. Which Azure Cognitive Services service should you use?

A. Face

B. Form Recognizer

C. Text Analytics

D. Computer Vision

Correct Answer: A

The Azure Face service provides AI algorithms that detect, recognize, and analyze human faces in images. Facial recognition software is important in many different scenarios, such as identity verification, touchless access control, and face blurring for privacy.

Reference: https://docs.microsoft.com/en-us/azure/cognitive-services/face/overview https://docs.microsoft.com/en-us/azure/cognitive-services/face/face-api-how-to-topics/howtodetectfacesinimage

QUESTION 3

HOTSPOT

You have a database that contains a list of employees and their photos.

You are tagging new photos of the employees.

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
The Face service can be used to group all the employees who have similar facial characteristics.	○	○
The Face service will be more accurate if you provide more sample photos of each employee from different angles.	○	○
If an employee is wearing sunglasses, the Face service will always fail to recognize the employee.	○	○

Correct Answer:

Answer Area

Statements	Yes	No
The Face service can be used to group all the employees who have similar facial characteristics.	●	○
The Face service will be more accurate if you provide more sample photos of each employee from different angles.	●	○
If an employee is wearing sunglasses, the Face service will always fail to recognize the employee.	○	●

Reference: https://docs.microsoft.com/en-us/azure/cognitive-services/face/overview https://docs.microsoft.com/en-us/azure/cognitive-services/face/concepts/face-detection

QUESTION 4

HOTSPOT

Select the answer that correctly completes the sentence.

Hot Area:

Answer Area

Using Recency, Frequency, and Monetary (RFM) values to identify segments of a customer base is an example of

| clustering. |
| regression. |
| classification. |
| regularization. |

Correct Answer:

Answer Area

Using Recency, Frequency, and Monetary (RFM) values to identify segments of a customer base is an example of

| clustering. |
| regression. |
| **classification.** |
| regularization. |

QUESTION 5

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

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