AI-900^{Q&As}

Microsoft Azure AI Fundamentals

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QUESTION 1

You run a charity event that involves posting photos of people wearing sunglasses on Twitter. You need to ensure that you only retweet photos that meet the following requirements:

1.

 Include one or more faces.

2.

 Contain at least one person wearing sunglasses. What should you use to analyze the images?

A. the Verify operation in the Face service

B. the Detect operation in the Face service

C. the Describe Image operation in the Computer Vision service

D. the Analyze Image operation in the Computer Vision service

Correct Answer: B

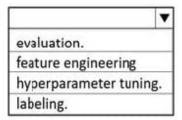Reference: https://docs.microsoft.com/en-us/azure/cognitive-services/face/overview

QUESTION 2

HOTSPOT

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

Hot Area:

Answer Area

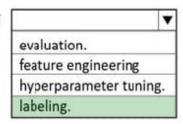Assigning classes to images before training a classification model is an example of [▼]

evaluation.
feature engineering
hyperparameter tuning.
labeling.

Correct Answer:

Answer Area

Assigning classes to images before training a classification model is an example of

▼
evaluation.
feature engineering
hyperparameter tuning.
labeling.

Reference: https://docs.microsoft.com/en-us/azure/machine-learning/how-to-label-data

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QUESTION 3

DRAG DROP

Match the facial recognition tasks to the appropriate questions.

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

NOTE: Each correct selection is worth one point.

Select and Place:

Tasks	Answer Area	
grouping	Task	Do two images of a face belong to the same person?
identification	Task	Does this person look like other people?
similarity	Task	Do all the faces belong together?
verification	Task	Who is this person in this group of people?

Correct Answer:

Tasks	Answer Area	
	verification	Do two images of a face belong to the same person?
	similarity	Does this person look like other people?
	grouping	Do all the faces belong together?
	identification	Who is this person in this group of people?

Box 1: verification Face verification: Check the likelihood that two faces belong to the same person and receive a confidence score. Box 2: similarity

Box 3: Grouping Box 4: identification Face detection: Detect one or more human faces along with attributes such as: age, emotion, pose, smile, and facial hair, including 27 landmarks for each face in the image.

Reference: https://azure.microsoft.com/en-us/services/cognitive-services/face/#features

QUESTION 4

You build a machine learning model by using the automated machine learning user interface (UI). You need to ensure that the model meets the Microsoft transparency principle for responsible AI. What should you do?

A. Set Validation type to Auto.

B. Enable Explain best model.

C. Set Primary metric to accuracy.

D. Set Max concurrent iterations to 0.

Correct Answer: B

Model Explain Ability.

Most businesses run on trust and being able to open the ML "black box" helps build transparency and trust. In heavily regulated industries like healthcare and banking, it is critical to comply with regulations and best practices. One key aspect

of this is understanding the relationship between input variables (features) and model output. Knowing both the magnitude and direction of the impact each feature (feature importance) has on the predicted value helps better understand and

explain the model. With model explain ability, we enable you to understand feature importance as part of automated ML runs.

Reference:

https://azure.microsoft.com/en-us/blog/new-automated-machine-learning-capabilities-in-azure-machine-learning-service/

QUESTION 5

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
Azure Bot Service and Azure Congnitive Services can be integrated.	○	○
Azure Bot Service engages with customers in a conversational manner.	○	○
Azure Bot Service can import frequently asked questions (FAQ) to question and answer sets.	○	○

Correct Answer:

Answer Area

Statements	Yes	No
Azure Bot Service and Azure Congnitive Services can be integrated.	○	○
Azure Bot Service engages with customers in a conversational manner.	○	○
Azure Bot Service can import frequently asked questions (FAQ) to question and answer sets.	○	○

Box 1: Yes

Azure bot service can be integrated with the powerful AI capabilities with Azure Cognitive Services.

Box 2: Yes

Azure bot service engages with customers in a conversational manner.

Box 3: No

The QnA Maker service creates knowledge base, not question and answers sets.

Note: You can use the QnA Maker service and a knowledge base to add question-and-answer support to your bot. When you create your knowledge base, you seed it with questions and answers.

Reference:

https://docs.microsoft.com/en-us/azure/bot-service/bot-builder-tutorial-add-qna

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