AI-900 Q&As

Microsoft Azure AI Fundamentals

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QUESTION 1

You need to create a model that labels a collection of your personal digital photographs. Which Azure Cognitive Services service should you use?

A. Form Recognizer

B. Custom Vision

C. Language

D. Computer Vision

Correct Answer: D

Computer Vision, an AI service that analyzes content in images and video.

Extract rich information from images and video

Boost content discoverability, automate text extraction, analyze video in real time, and create products that more people can use by embedding cloud vision capabilities in your apps with Computer Vision, part of Azure Cognitive Services. Use

visual data processing to label content with objects and concepts, extract text, generate image descriptions, moderate content, and understand people\\'s movement in physical spaces. No machine learning expertise is required.

Reference: https://azure.microsoft.com/en-us/services/cognitive-services/computer-vision/

QUESTION 2

You need to build an app that will read recipe instructions aloud to support users who have reduced vision. Which version service should you use?

A. Text Analytics

B. Translator Text

C. Speech

D. Language Understanding (LUIS)

Correct Answer: C

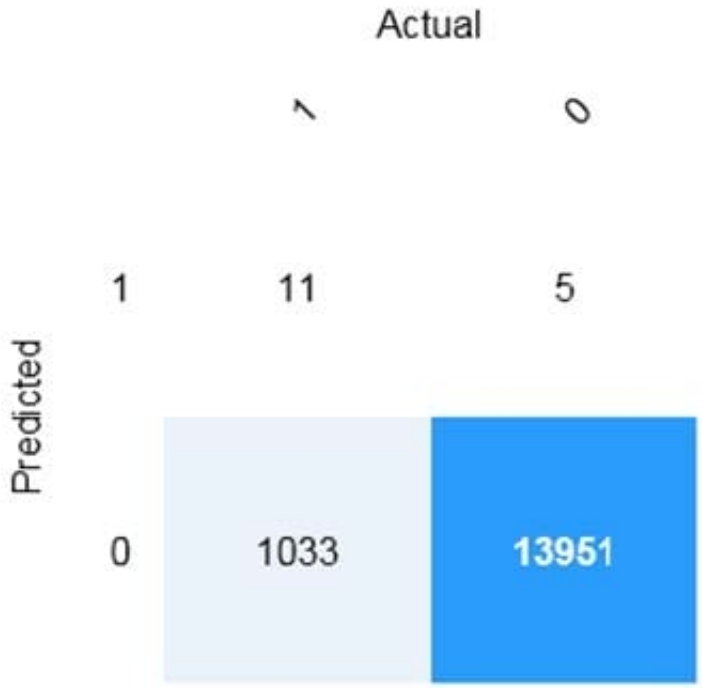
Reference: https://azure.microsoft.com/en-us/services/cognitive-services/text-to-speech/#features

QUESTION 3

HOTSPOT

You are developing a model to predict events by using classification.

You have a confusion matrix for the model scored on test data as shown in the following exhibit.



Use the drop-down menus to select the answer choice that completes each statement based on the information presented in the graphic.

NOTE: Each correct selection is worth one point.

Hot Area:

Answer Area

There are **[answer choice]** correctly predicted positives.

- 5
- 11
- 1,033
- 13,951

There are **[answer choice]** false negatives.

- 5
- 11
- 1,033
- 13,951

Correct Answer:

Answer Area

There are **[answer choice]** correctly predicted positives.

- 5
- 11
- 1,033
- 13,951

There are **[answer choice]** false negatives.

- 5
- 11
- 1,033
- 13,951

Box 1: 11

	Predicted	
	Positive	Negative
Actual True	TP	FN
Actual False	FP	TN

TP = True Positive.

The class labels in the training set can take on only two possible values, which we usually refer to as positive or negative. The positive and negative instances that a classifier predicts correctly are called true positives (TP) and true negatives

(TN), respectively. Similarly, the incorrectly classified instances are called false positives (FP) and false negatives (FN).

Box 2: 1,033

FN = False Negative

Reference:

https://docs.microsoft.com/en-us/azure/machine-learning/studio/evaluate-model-performance

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
Automated machine learning provides you with the ability to include custom Python scripts in a training pipeline.	○	○
Automated machine learning implements machine learning solutions without the need for programming experience.	○	○
Automated machine learning provides you with the ability to visually connect datasets and modules on an interactive canvas.	○	○

Correct Answer:

Answer Area

Statements	Yes	No
Automated machine learning provides you with the ability to include custom Python scripts in a training pipeline.	○	○
Automated machine learning implements machine learning solutions without the need for programming experience.	○	○
Automated machine learning provides you with the ability to visually connect datasets and modules on an interactive canvas.	○	○

Reference: https://docs.microsoft.com/en-us/azure/machine-learning/how-to-designer-python
https://docs.microsoft.com/en-us/azure/machine-learning/concept-automated-ml

QUESTION 5

Which type of machine learning should you use to identify groups of people who have similar purchasing habits?

A. classification

B. regression

C. clustering

Correct Answer: C

Clustering is a machine learning task that is used to group instances of data into clusters that contain similar characteristics. Clustering can also be used to identify relationships in a dataset

Reference: https://docs.microsoft.com/en-us/dotnet/machine-learning/resources/tasks