



# AI-900<sup>Q&As</sup>

Microsoft Azure AI Fundamentals

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## QUESTION 1

### DRAG DROP

Match the types of natural language processing workloads to the appropriate scenarios.

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

NOTE: Each correct match is worth one point.

Select and Place:

### Workload types

Entity recognition

Key phrase extraction

Language modeling

Sentiment analysis

Speech recognition and speech synthesis

Translation

### Answer Area

Extracts persons, locations, and organizations from the text.

Evaluates text along a positive-negative scale.

Converts text to a different language.

Correct Answer:



## Workload types

Key phrase extraction

Language modeling

Speech recognition and speech synthesis

## Answer Area

Entity recognition

Extracts persons, locations, and organizations from the text.

Sentiment analysis

Evaluates text along a positive-negative scale.

Translation

Converts text to a different language.

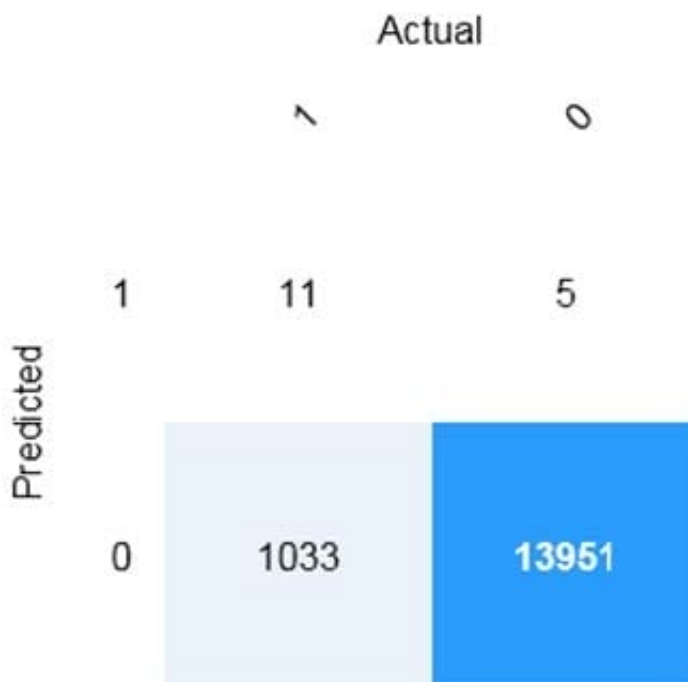
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## QUESTION 2

### 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 3

#### HOTSPOT

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

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: 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>

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#### QUESTION 4

You have an AI solution that provides users with the ability to control smart devices by using verbal commands.

Which two types of natural language processing (NLP) workloads does the solution use? Each correct answer presents part of the solution.

NOTE: Each correct selection is worth one point.

- A. text-to-speech
- B. translation
- C. language modeling
- D. key phrase extraction
- E. speech-to-text

Correct Answer: CD

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#### QUESTION 5

##### 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

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

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