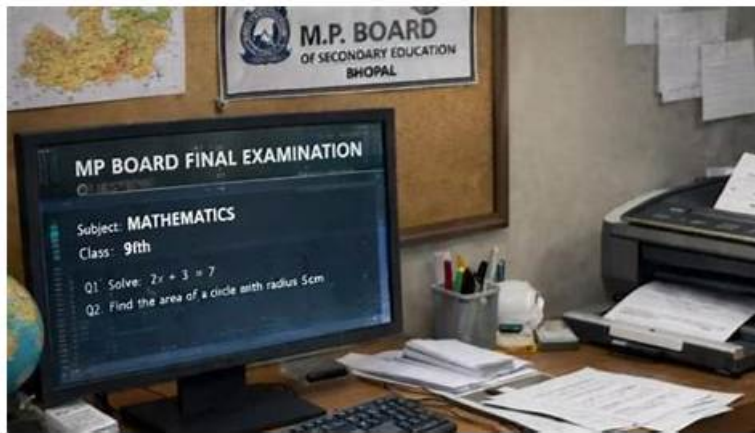


# AI-900 Exam Quick Prep | Latest AI-900 Test Blueprint



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## Microsoft AI-900 Exam Syllabus Topics:

Topic	Details
<b>Describe Artificial Intelligence workloads and considerations (20-25%)</b>	
Identify features of common AI workloads	<ul style="list-style-type: none"><li>- identify features of anomaly detection workloads</li><li>- identify computer vision workloads</li><li>- identify natural language processing workloads</li><li>- identify knowledge mining workloads</li></ul>
Identify guiding principles for responsible AI	<ul style="list-style-type: none"><li>- describe considerations for fairness in an AI solution</li><li>- describe considerations for reliability and safety in an AI solution</li><li>- describe considerations for privacy and security in an AI solution</li><li>- describe considerations for inclusiveness in an AI solution</li><li>- describe considerations for transparency in an AI solution</li><li>- describe considerations for accountability in an AI solution</li></ul>
<b>Describe fundamental principles of machine learning on Azure (25-30%)</b>	
Identify common machine learning types	<ul style="list-style-type: none"><li>- identify regression machine learning scenarios</li><li>- identify classification machine learning scenarios</li><li>- identify clustering machine learning scenarios</li></ul>
Describe core machine learning concepts	<ul style="list-style-type: none"><li>- identify features and labels in a dataset for machine learning</li><li>- describe how training and validation datasets are used in machine learning</li></ul>
Describe capabilities of visual tools in Azure Machine Learning studio	<ul style="list-style-type: none"><li>- automated machine learning</li><li>- azure Machine Learning designer</li></ul>
<b>Describe features of computer vision workloads on Azure (15-20%)</b>	

Identify common types of computer vision solution	<ul style="list-style-type: none"> <li>- identify features of image classification solutions</li> <li>- identify features of object detection solutions</li> <li>- identify features of optical character recognition solutions</li> <li>- identify features of facial detection, facial recognition, and facial analysis solutions</li> </ul>
Identify Azure tools and services for computer vision tasks	<ul style="list-style-type: none"> <li>- identify capabilities of the Computer Vision service</li> <li>- identify capabilities of the Custom Vision service</li> <li>- identify capabilities of the Face service</li> <li>- identify capabilities of the Form Recognizer service</li> </ul>

## >> AI-900 Exam Quick Prep <<

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### Microsoft Azure AI Fundamentals Sample Questions (Q151-Q156):

#### NEW QUESTION # 151

Match the Azure AI service to the appropriate actions.

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

NOTE: Each correct match is worth one point.

**Answer:**

Explanation:

#### NEW QUESTION # 152

Match the Azure Cognitive Services service to the appropriate actions.

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

NOTE: Each correct match is worth one point.

Answer:

Explanation:

Azure Cognitive Services

Language service ☒

Speech ☐

Translator ☐

Answer Area

Microsoft

Translator ☐ Convert spoken requests into text.

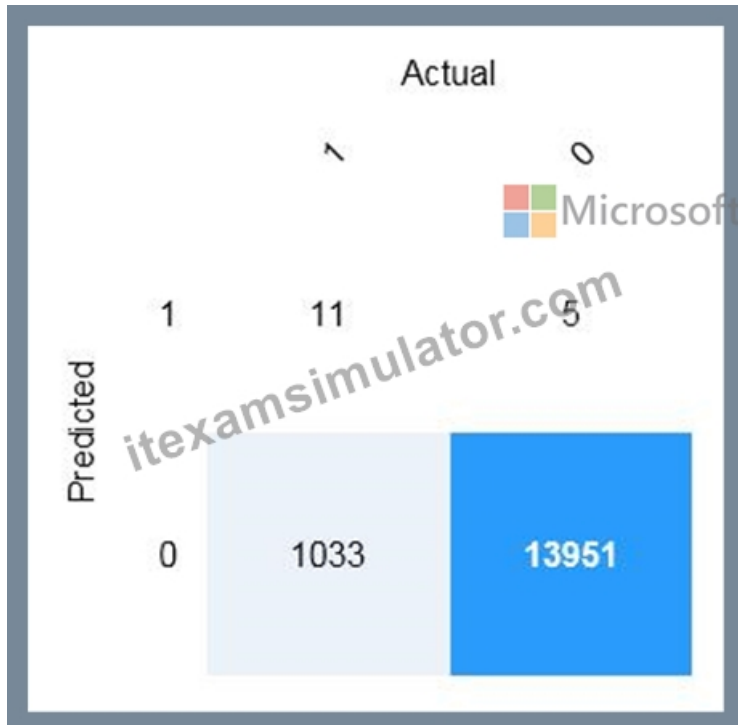
Speech ☐ Identify the intent of a user's requests.

Language service ☐ Apply intent to entities and utterances.

### NEW QUESTION # 153

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.

Answer Area

There are [answer choice] correctly predicted positives.

There are [answer choice] false negatives.

Microsoft

Answer:

Explanation:

## 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

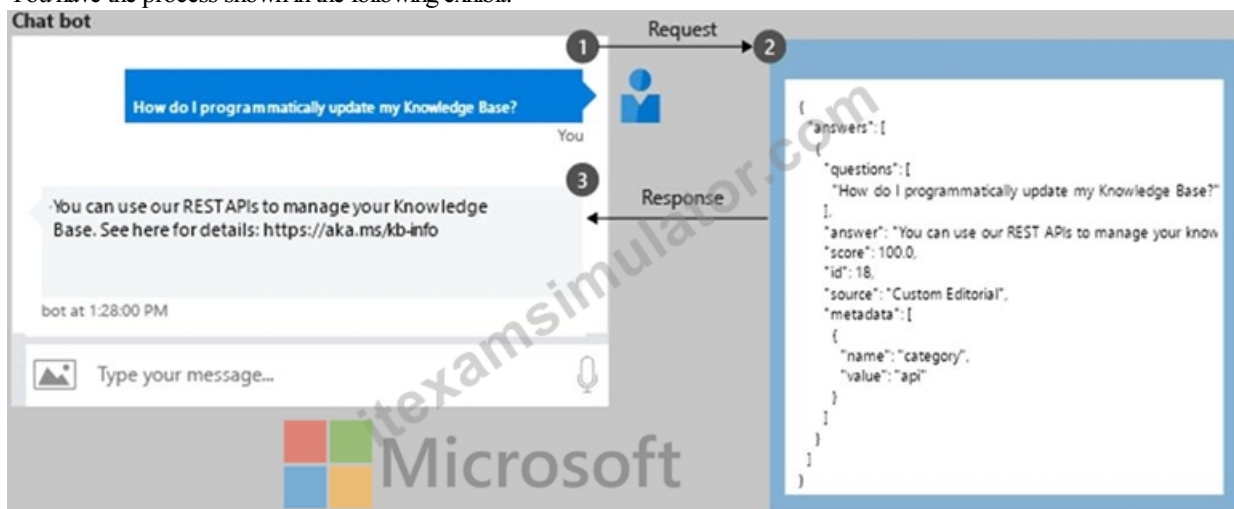


Reference:

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

### NEW QUESTION # 154

You have the process shown in the following exhibit.



Which type AI solution is shown in the diagram?

- A. a chatbot
- B. a sentiment analysis solution
- C. a computer vision application
- D. a machine learning model

Answer: A

### NEW QUESTION # 155

Match the types of machine learning to the appropriate scenarios.

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

NOTE: Each correct selection is worth one point.

Machine Learning Types	Answer Area
Facial detection	Machine Learning Type: Separate images of polar bears and brown bears.
Facial recognition	Machine Learning Type: Determine the location of a bear in a photo.
Image classification	Machine Learning Type: Determine which pixels in an image are part of a bear.
Object detection	
Optical character recognition (OCR)	
Semantic segmentation	

**Answer:**

**Explanation:**

Machine Learning Types	Answer Area
Facial detection	Image classification Type: Separate images of polar bears and brown bears.
Facial recognition	Object detection learning Type: Determine the location of a bear in a photo.
Image classification	Semantic segmentation type: Determine which pixels in an image are part of a bear.
Object detection	
Optical character recognition (OCR)	
Semantic segmentation	

**Reference:**

<https://developers.google.com/machine-learning/practica/image-classification>

<https://docs.microsoft.com/en-us/dotnet/machine-learning/tutorials/object-detection-model-builder>

<https://nanonets.com/blog/how-to-do-semantic-segmentation-using-deep-learning/>

## NEW QUESTION # 156

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