

➤ **Vendor: Microsoft**

➤ **Exam Code: AI-900**

➤ **Exam Name: Microsoft Azure AI Fundamentals**

➤ **New Updated Questions from [Braindump2go](#) (Updated in [October/2021](#))**

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**QUESTION 96**

You have a webchat bot that provides responses from a QnA Maker knowledge base. You need to ensure that the bot uses user feedback to improve the relevance of the responses over time. What should you use?

- A. key phrase extraction
- B. sentiment analysis
- C. business logic
- D. active learning

**Answer: D**

**Explanation:**

<https://docs.microsoft.com/en-us/azure/cognitive-services/qnamaker/how-to/improve-knowledge-base>

**QUESTION 97**

You are developing a conversational AI solution that will communicate with users through multiple channels including email, Microsoft Teams, and webchat. Which service should you use?

- A. Text Analytics
- B. Azure Bot Service
- C. Translator
- D. Form Recognizer

**Answer: B**

**Explanation:**

<https://docs.microsoft.com/en-us/azure/bot-service/bot-service-overview-introduction?view=azure-bot-service-4.0>

**QUESTION 98**

In which scenario should you use key phrase extraction?

- A. translating a set of documents from English to German
- B. generating captions for a video based on the audio track
- C. identifying whether reviews of a restaurant are positive or negative
- D. identifying which documents provide information about the same topics

**Answer: C**

**QUESTION 99**

You have insurance claim reports that are stored as text.

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You need to extract key terms from the reports to generate summaries.  
Which type of AI workload should you use?

- A. conversational AI
- B. anomaly detection
- C. natural language processing
- D. computer vision

**Answer: C**

**Explanation:**

Key phrase extraction is the concept of evaluating the text of a document, or documents, and then identifying the main talking points of the document(s). Key phrase extraction is a part of Text Analytics. The Text Analytics service is a part of the Azure Cognitive Services offerings that can perform advanced natural language processing over raw text.  
<https://docs.microsoft.com/en-us/learn/modules/analyze-text-with-text-analytics-service/2-get-started-azure>

#### **QUESTION 100**

To complete the sentence, select the appropriate option in the answer area.  
Computer vision capabilities can be Deployed to \_\_\_\_\_

- A. See the below in explanation

**Answer: A**

**Explanation:**

Integrate a facial recognition feature into an app.

Computer vision capabilities can be deployed to

#### **QUESTION 101**

You need to track multiple versions of a model that was trained by using Azure Machine Learning.  
What should you do?

- A. Provision an inference cluster.
- B. Explain the model.
- C. Register the model.
- D. Register the training data.

**Answer: C**

#### **QUESTION 102**

You need to develop a chatbot for a website. The chatbot must answer users questions based on the information in the following documents:

- A product troubleshooting guide in a Microsoft Word document
- A frequently asked questions (FAQ) list on a webpage

Which service should you use to process the documents?

- A. Language Understanding
- B. Text Analytics
- C. Azure Bot Service
- D. QnA Maker

**Answer: D**

#### **QUESTION 103**

You are building a knowledge base by using QnA Maker.  
Which file format can you use to populate the knowledge base?

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- A. PDF
- B. PPTX
- C. XML
- D. ZIP

**Answer: A**

**Explanation:**

Content types of documents you can add to a knowledge base:

Content types include many standard structured documents such as PDF, DOC, and TXT.

Note: The tool supports the following file formats for ingestion:

.tsv: QnA contained in the format Question(tab)Answer.

.txt, .docx, .pdf: QnA contained as regular FAQ content--that is, a sequence of questions and answers.

Reference:

<https://docs.microsoft.com/en-us/azure/cognitive-services/qnamaker/concepts/data-sources-and-content>

**QUESTION 104**

You use Azure Machine Learning designer to build a model pipeline. What should you create before you can run the pipeline?

- A. a Jupyter notebook
- B. a registered model
- C. a compute resource

**Answer: C**

**QUESTION 105**

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. Computer Vision
- B. Face
- C. Text Analytics
- D. Form Recognizer

**Answer: B**

**QUESTION 106**

You use drones to identify where weeds grow between rows of crops to send an instruction for the removal of the weeds.

This is an example of which type of computer vision?

- A. scene segmentation
- B. optical character recognition (OCR)
- C. object detection

**Answer: A**

**QUESTION 107**

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

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

- A. See the below in explanation

**Answer: A**

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**Explanation:**

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

**QUESTION 108**

Hotspot Question

For each of the following statements, select Yes if the statement is true. Otherwise, select No.

NOTE: Each correct selection is worth one point.

**Answer Area**

Statements	Yes	No
A restaurant can use a chatbot to empower customers to make reservations by using a website or an app.	<input type="radio"/>	<input type="radio"/>
A restaurant can use a chatbot to answer inquiries about business hours from a webpage.	<input type="radio"/>	<input type="radio"/>
A restaurant can use a chatbot to automate responses to customer reviews on an external website.	<input type="radio"/>	<input type="radio"/>

Answer:

**Answer Area**

Statements	Yes	No
A restaurant can use a chatbot to empower customers to make reservations by using a website or an app.	<input checked="" type="radio"/>	<input type="radio"/>
A restaurant can use a chatbot to answer inquiries about business hours from a webpage.	<input checked="" type="radio"/>	<input type="radio"/>
A restaurant can use a chatbot to automate responses to customer reviews on an external website.	<input checked="" type="radio"/>	<input type="radio"/>

**Explanation:**

<https://docs.microsoft.com/en-us/azure/bot-service/bot-service-overview-introduction?view=azure-bot-service-4.0>

**QUESTION 109**

Hotspot Question

For each of the following statements, select Yes if the statement is true. Otherwise, select No.

NOTE: Each correct selection is worth one point.

**Answer Area**

Statements	Yes	No
A bot that responds to queries by internal users is an example of a conversational AI workload.	<input type="radio"/>	<input type="radio"/>
An application that displays images relating to an entered search term is an example of a conversational AI workload.	<input type="radio"/>	<input type="radio"/>
A web form used to submit a request to reset a password is an example of a conversational AI workload.	<input type="radio"/>	<input type="radio"/>

Answer:

**Answer Area**

Statements	Yes	No
A bot that responds to queries by internal users is an example of a conversational AI workload.	<input checked="" type="radio"/>	<input type="radio"/>
An application that displays images relating to an entered search term is an example of a conversational AI workload.	<input type="radio"/>	<input checked="" type="radio"/>
A web form used to submit a request to reset a password is an example of a conversational AI workload.	<input checked="" type="radio"/>	<input type="radio"/>

**Explanation:**

<https://docs.microsoft.com/en-us/azure/bot-service/bot-service-overview-introduction?view=azure-bot-service-4.0>

**QUESTION 110**

Hotspot Question

For each of the following statements, select Yes if the statement is true. Otherwise, select No.

NOTE: Each correct selection is worth one point.

Statements	Yes	No
A webchat bot can interact with users visiting a website.	<input type="radio"/>	<input type="radio"/>
Automatically generating captions for pre-recorded videos is an example of conversational AI.	<input type="radio"/>	<input type="radio"/>
A smart device in the home that responds to questions such as "What will the weather be like today?" is an example of conversational AI.	<input type="radio"/>	<input type="radio"/>

Answer:

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Statements	Yes	No
A webchat bot can interact with users visiting a website.	<input checked="" type="radio"/>	<input type="radio"/>
Automatically generating captions for pre-recorded videos is an example of conversational AI.	<input checked="" type="radio"/>	<input type="radio"/>
A smart device in the home that responds to questions such as "What will the weather be like today?" is an example of conversational AI.	<input checked="" type="radio"/>	<input type="radio"/>

**QUESTION 111**

Hotspot Question

For each of the following statements, select Yes if the statement is true. Otherwise, select No.

NOTE: Each correct selection is worth one point.

**Answer Area**

Statements	Yes	No
You can use the Translator service to translate text between languages.	<input type="radio"/>	<input type="radio"/>
You can use the Translator service to detect the language of a given text.	<input type="radio"/>	<input type="radio"/>
You can use the Translator service to transcribe audible speech into text.	<input type="radio"/>	<input type="radio"/>

**Answer:**

**Answer Area**

Statements	Yes	No
You can use the Translator service to translate text between languages.	<input checked="" type="radio"/>	<input type="radio"/>
You can use the Translator service to detect the language of a given text.	<input checked="" type="radio"/>	<input type="radio"/>
You can use the Translator service to transcribe audible speech into text.	<input type="radio"/>	<input checked="" type="radio"/>

**Explanation:**

The translator service provides multi-language support for text translation, transliteration, language detection, and dictionaries.

Speech-to-Text, also known as automatic speech recognition (ASR), is a feature of Speech Services that provides transcription.

Reference:

<https://docs.microsoft.com/en-us/azure/cognitive-services/Translator/translator-info-overview>

<https://docs.microsoft.com/en-us/legal/cognitive-services/speech-service/speech-to-text/transparency-note>

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**QUESTION 112**

Hotspot Question

For each of the following statements, select Yes if the statement is true. Otherwise, select No.

NOTE: Each correct selection is worth one point.

**Answer Area**

Statements	Yes	No
Providing an explanation of the outcome of a credit loan application is an example of the Microsoft transparency principle for responsible AI.	<input type="radio"/>	<input type="radio"/>
A triage bot that prioritizes insurance claims based on injuries is an example of the Microsoft reliability and safety principle for responsible AI.	<input type="radio"/>	<input type="radio"/>
An AI solution that is offered at different prices for different sales territories is an example of the Microsoft inclusiveness principle for responsible AI.	<input type="radio"/>	<input type="radio"/>

Answer:

**Answer Area**

Statements	Yes	No
Providing an explanation of the outcome of a credit loan application is an example of the Microsoft transparency principle for responsible AI.	<input checked="" type="radio"/>	<input type="radio"/>
A triage bot that prioritizes insurance claims based on injuries is an example of the Microsoft reliability and safety principle for responsible AI.	<input type="radio"/>	<input checked="" type="radio"/>
An AI solution that is offered at different prices for different sales territories is an example of the Microsoft inclusiveness principle for responsible AI.	<input type="radio"/>	<input checked="" type="radio"/>

**Explanation:**

Box 1: Yes

Achieving transparency helps the team to understand the data and algorithms used to train the model, what transformation logic was applied to the data, the final model generated, and its associated assets. This information offers insights about how the model was created, which allows it to be reproduced in a transparent way.

Box 2: No

A data holder is obligated to protect the data in an AI system, and privacy and security are an integral part of this system. Personal needs to be secured, and it should be accessed in a way that doesn't compromise an individual's privacy.

Box 3: No

Inclusiveness mandates that AI should consider all human races and experiences, and inclusive design practices can help developers to understand and address potential barriers that could unintentionally exclude people. Where possible, speech-to-text, text-to-speech, and visual recognition technology should be used to empower people with hearing, visual, and other impairments.

Reference:

<https://docs.microsoft.com/en-us/azure/cloud-adoption-framework/innovate/best-practices/trusted-ai>

**QUESTION 113**

Hotspot Question

For each of the following statements, select Yes if the statement is true. Otherwise, select No.

NOTE: Each correct selection is worth one point.

Statements	Yes	No
You train a regression model by using unlabeled data.	<input type="radio"/>	<input type="radio"/>
The classification technique is used to predict sequential numerical data over time.	<input type="radio"/>	<input type="radio"/>
Grouping items by their common characteristics is an example of clustering.	<input type="radio"/>	<input type="radio"/>

**Answer:**

Statements	Yes	No
You train a regression model by using unlabeled data.	<input checked="" type="radio"/>	<input type="radio"/>
The classification technique is used to predict sequential numerical data over time.	<input type="radio"/>	<input checked="" type="radio"/>
Grouping items by their common characteristics is an example of clustering.	<input checked="" type="radio"/>	<input type="radio"/>

#### QUESTION 114

Hotspot Question

For each of the following statements, select Yes if the statement is true. Otherwise, select No.

NOTE: Each correct selection is worth one point.

Statements	Yes	No
Chatbots can support voice input.	<input type="radio"/>	<input type="radio"/>
A separate chatbot is required for each communication channel.	<input type="radio"/>	<input type="radio"/>
Chatbots manage conversation flows by using a combination of natural language and constrained option responses.	<input type="radio"/>	<input type="radio"/>

**Answer:**

Statements	Yes	No
Chatbots can support voice input.	<input type="radio"/>	<input checked="" type="radio"/>
A separate chatbot is required for each communication channel.	<input type="radio"/>	<input checked="" type="radio"/>
Chatbots manage conversation flows by using a combination of natural language and constrained option responses.	<input checked="" type="radio"/>	<input type="radio"/>

#### QUESTION 115

Drag and Drop Question

Match the services to the appropriate descriptions.

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

NOTE: Each correct match is worth one point

Services	Answer Area
Azure Storage	<input type="text"/> Enables the use of natural language to query a knowledge base.
Language Understanding (LUIS)	<input type="text"/> Enables the real-time transcription of speech-to-text.
QnA Maker	
Speech	

**Answer:**



Services	Answer Area
Azure Storage	QnA Maker <input type="checkbox"/> Enables the use of natural language to query a knowledge base.
	Language Understanding (LUIS) <input type="checkbox"/> Enables the real-time transcription of speech-to-text.
Speech	

#### QUESTION 116

Drag and Drop Question

Match the principles of responsible AI to the appropriate descriptions. To answer, drag the appropriate principle from the column on the left to its description on the right. Each principle may be used once, more than once, or not at all.  
 NOTE: Each correct match is worth one point.

Principles	Answer Area
Fairness	<input type="text"/> AI systems must consistently operate as intended, even under unexpected conditions.
Inclusiveness	<input type="text"/> AI systems must protect and secure personal and businesses information.
Privacy and security	
Reliability and safety	

**Answer:**

Principles	Answer Area
Fairness	Reliability and safety <input type="checkbox"/> AI systems must consistently operate as intended, even under unexpected conditions.
Inclusiveness	Privacy and security <input type="checkbox"/> AI systems must protect and secure personal and businesses information.

#### QUESTION 117

Hotspot Question

For each of the following statements, select Yes if the statement is true. Otherwise, select No.  
 NOTE: Each correct selection is worth one point.

Statements	Yes	No
You can communicate with a bot by using Cortana.	<input type="radio"/>	<input type="radio"/>
You can communicate with a bot by using Microsoft Teams.	<input type="radio"/>	<input type="radio"/>
You can communicate with a bot by using a webchat interface.	<input type="radio"/>	<input type="radio"/>

**Answer:**

Statements	Yes	No
You can communicate with a bot by using Cortana.	<input checked="" type="radio"/>	<input type="radio"/>
You can communicate with a bot by using Microsoft Teams.	<input checked="" type="radio"/>	<input type="radio"/>
You can communicate with a bot by using a webchat interface.	<input checked="" type="radio"/>	<input type="radio"/>

**QUESTION 118**

You plan to develop a bot that will enable users to query a knowledge base by using natural language processing. Which two services should you include in the solution? Each correct answer presents part of the solution.

**NOTE:** Each correct selection is worth one point.

- A. QnA Maker
- B. Azure Bot Service
- C. Form Recognizer
- D. Anomaly Detector

**Answer:** AB

**Explanation:**

<https://docs.microsoft.com/en-us/azure/bot-service/bot-service-overview-introduction?view=azure-bot-service-4.0>

<https://docs.microsoft.com/en-us/azure/cognitive-services/luis/choose-natural-language-processing-service>

**QUESTION 119**

In which two scenarios can you use a speech synthesis solution? Each correct answer presents a complete solution.

**NOTE:** Each correct selection is worth one point.

- A. an automated voice that reads back a credit card number entered into a telephone by using a numeric keypad
- B. generating live captions for a news broadcast
- C. extracting key phrases from the audio recording of a meeting
- D. an AI character in a computer game that speaks audibly to a player

**Answer:** AD

**Explanation:**

Azure Text to Speech is a Speech service feature that converts text to lifelike speech.

Incorrect Answers:

C: Extracting key phrases is not speech synthesis.

Reference:

<https://azure.microsoft.com/en-in/services/cognitive-services/text-to-speech/>

**QUESTION 120**

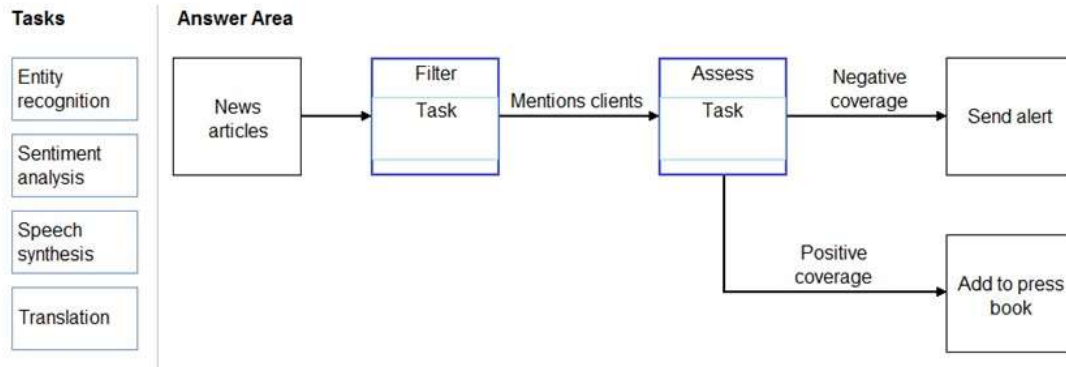
Drag and Drop Question

You need to scan the news for articles about your customers and alert employees when there is a negative article.

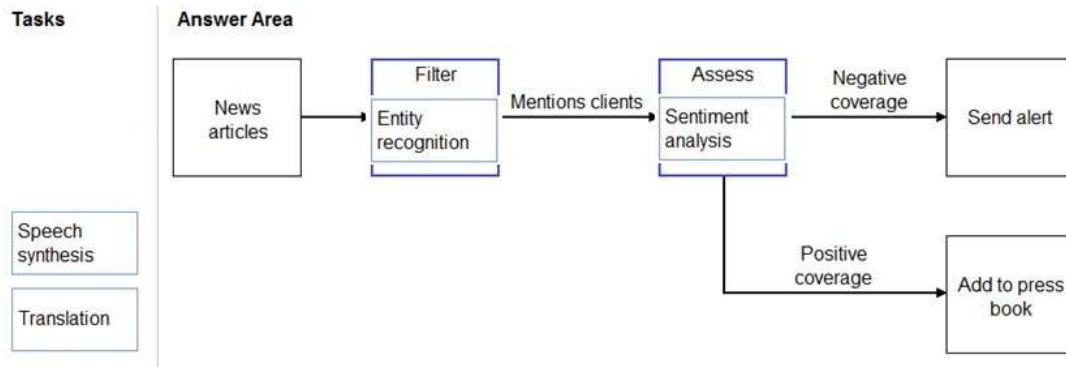
Positive articles must be added to a press book.

Which natural language processing tasks should you use to complete the process? To answer, drag the appropriate tasks to the correct locations. Each task may be used once, more than once, or not at all. You may need to drag the split bar between panes or scroll to view content.

**NOTE:** Each correct selection is worth one point.



**Answer:**



**Explanation:**

Box 1: Entity recognition

the Named Entity Recognition module in Machine Learning Studio (classic), to identify the names of things, such as people, companies, or locations in a column of text.

Named entity recognition is an important area of research in machine learning and natural language processing (NLP), because it can be used to answer many real-world questions, such as:

Which companies were mentioned in a news article?

Does a tweet contain the name of a person? Does the tweet also provide his current location?

Were specified products mentioned in complaints or reviews?

Box 2: Sentiment Analysis

The Text Analytics API's Sentiment Analysis feature provides two ways for detecting positive and negative sentiment. If you send a Sentiment Analysis request, the API will return sentiment labels (such as "negative", "neutral" and "positive") and confidence scores at the sentence and document-level.

Reference:

<https://docs.microsoft.com/en-us/azure/machine-learning/studio-module-reference/named-entity-recognition>

<https://docs.microsoft.com/en-us/azure/cognitive-services/text-analytics/how-tos/text-analytics-how-to-sentiment-analysis>