

## AI-900 Dumps

### Microsoft Azure AI Fundamentals (beta)

<https://www.certleader.com/AI-900-dumps.html>



**NEW QUESTION 1**

FILL IN THE BLANK - (Topic 5)

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

- A. Mastered
- B. Not Mastered

**Answer:** A

**Explanation:**

Computer vision capabilities can be deployed to  ▼

**NEW QUESTION 2**

- (Topic 5)

You have a frequently asked questions (FAQ) PDF file.

You need to create a conversational support system based on the FAQ.

Which service should you use?

- A. QnA Maker
- B. Text Analytics
- C. Computer Vision
- D. Language Understanding (LUIS)

**Answer:** A

**Explanation:**

QnA Maker is a cloud-based API service that lets you create a conversational question- and-answer layer over your existing data. Use it to build a knowledge base by extracting questions and answers from your semi-structured content, including FAQs, manuals, and documents.

Reference:

<https://azure.microsoft.com/en-us/services/cognitive-services/qna-maker/>

**NEW QUESTION 3**

- (Topic 5)

You need to reduce the load on telephone operators by implementing a chatbot to answer simple questions with predefined answers.

Which two AI service should you use to achieve the goal? Each correct answer presents part of the solution.

NOTE: Each correct selection is worth one point.

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

**Answer:** BC

**Explanation:**

Bots are a popular way to provide support through multiple communication channels. You can use the QnA Maker service and Azure Bot Service to create a bot that answers user questions. Reference:

<https://docs.microsoft.com/en-us/learn/modules/build-faq-chatbot-qna-maker-azure-bot-service/>

**NEW QUESTION 4**

HOTSPOT - (Topic 5)

Select the answer that correctly completes the sentence.

Answer Area

Counting the number of animals in an area based on a video feed is an example of  ▼  
forecasting.  
computer vision.  
knowledge mining.  
anomaly detection.

- A. Mastered
- B. Not Mastered

**Answer:** A

**Explanation:**

Answer Area

Counting the number of animals in an area based on a video feed is an example of  ▼  
forecasting.  
computer vision.  
knowledge mining.  
anomaly detection.

**NEW QUESTION 5**

HOTSPOT - (Topic 5)

Select the answer that correctly completes the sentence.

**Answer Area**

The interactive answering of questions entered by a user as part of an application is an example of

anomaly detection.  
computer vision.  
natural language processing.  
forecasting.

- A. Mastered
- B. Not Mastered

**Answer:** A

**Explanation:**

**Answer Area**

The interactive answering of questions entered by a user as part of an application is an example of

anomaly detection.  
computer vision.  
natural language processing.  
forecasting.

**NEW QUESTION 6**

HOTSPOT - (Topic 5)

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"/>

- A. Mastered
- B. Not Mastered

**Answer:** A

**Explanation:**

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"/>

**NEW QUESTION 7**

HOTSPOT - (Topic 5)

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 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"/>

- A. Mastered
- B. Not Mastered

Answer: A

Explanation:

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"/>

**NEW QUESTION 8**

- (Topic 5)

You have an Azure Machine Learning model that uses clinical data to predict whether a patient has a disease. You clean and transform the clinical data. You need to ensure that the accuracy of the model can be proven. What should you do next?

- A. Train the model by using the clinical data.
- B. Split the clinical data into Two datasets.
- C. Train the model by using automated machine learning (automated ML).
- D. Validate the model by using the clinical data.

Answer: D

**NEW QUESTION 9**

HOTSPOT - (Topic 5)

Select the answer that correctly completes the sentence

Answer Area

Ensuring an AI system does not provide a prediction when important fields contain unusual or missing values is  principle for responsible AI.

- an inclusiveness
- a privacy and security
- a reliability and safety
- a transparency

- A. Mastered
- B. Not Mastered

Answer: A

Explanation:

**Answer Area**

Ensuring an AI system does not provide a prediction when important fields contain unusual or missing values is  principle for responsible AI.

**NEW QUESTION 10**

HOTSPOT - (Topic 5)

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"/>

- A. Mastered
- B. Not Mastered

**Answer:** A

**Explanation:**

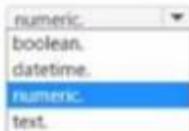
Statements	Yes	No
You train a regression model by using unlabeled data.	<input checked="" type="radio"/>	<input type="radio"/>
The classification technique is used to predict sequential numerical data over time.	<input type="radio"/>	<input checked="" type="radio"/>
Grouping items by their common characteristics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

**NEW QUESTION 10**

HOTSPOT - (Topic 5)

Select the answer that correctly completes the sentence.

**Answer Area**

When building a regression model, labels must have a data type of 

- A. Mastered
- B. Not Mastered

**Answer:** A

**Explanation:**

**Answer Area**

When building a regression model, labels must have a data type of 

**NEW QUESTION 12**

- (Topic 5)

You need to develop a web-based AI solution for a customer support system. Users must be able to interact with a web app that will guide them to the best

resource or answer.  
Which service should you use?

- A. Custom Vision
- B. QnA Maker
- C. Translator Text
- D. Face

**Answer: B**

**Explanation:**

QnA Maker is a cloud-based API service that lets you create a conversational question- and-answer layer over your existing data. Use it to build a knowledge base by extracting questions and answers from your semistructured content, including FAQs, manuals, and documents. Answer users' questions with the best answers from the QnAs in your knowledge base—automatically. Your knowledge base gets smarter, too, as it continually learns from user behavior.

Reference:

<https://azure.microsoft.com/en-us/services/cognitive-services/qna-maker/>

**NEW QUESTION 16**

- (Topic 5)

For which two workloads can you use computer vision? Each correct answer presents a complete solution. NOTE: Each correct selection is worth one point.

- A. creating photorealistic images by using three-dimensional models
- B. assigning the color pixels in an image to object names
- C. describing the contents of an image
- D. detecting inconsistencies and anomalies in a stream of data
- E. creating visual representations of numerical data

**Answer: BC**

**NEW QUESTION 19**

- (Topic 5)

Which Computer Vision feature can you use to generate automatic captions for digital photographs?

- A. Recognize text.
- B. Describe the images.
- C. Identify the areas of interest.
- D. Detect objects.

**Answer: B**

**NEW QUESTION 20**

HOTSPOT - (Topic 5)

Select the answer that correctly completes the sentence.

Answer Area

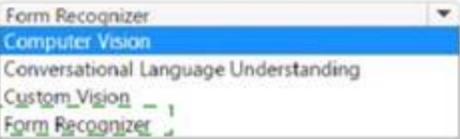
The  service can be used to extract information from a driver's license to populate a database.

- A. Mastered
- B. Not Mastered

**Answer: A**

**Explanation:**

Answer Area

The  service can be used to extract information from a driver's license to populate a database.

**NEW QUESTION 23**

DRAG DROP - (Topic 5)

Match the machine learning models to the appropriate descriptions.

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

NOTE: Each correct match is worth one point.

Models	Answer Area
Classification	<input type="text"/>
Clustering	<input type="text"/>
Regression	<input type="text"/>

A supervised machine learning model used to predict numeric values.

A supervised machine learning model used to predict categories.

An unsupervised machine learning model used to group similar entities based on features.

- A. Mastered
- B. Not Mastered

Answer: A

Explanation:

Models	Answer Area
Classification	Regression
Clustering	Classification
Regression	Clustering

Regression A supervised machine learning model used to predict numeric values.

Classification A supervised machine learning model used to predict categories.

Clustering An unsupervised machine learning model used to group similar entities based on features.

**NEW QUESTION 28**

HOTSPOT - (Topic 5)

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 smart device in the home that responds to questions such as "When is my next appointment?" is an example of conversational AI.	<input type="radio"/>	<input type="radio"/>
An interactive webchat feature on a company website can be implemented by using Azure Bot Service.	<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. Mastered
- B. Not Mastered

Answer: A

Explanation:

**Answer Area**

Statements	Yes	No
A smart device in the home that responds to questions such as "When is my next appointment?" is an example of conversational AI.	<input checked="" type="radio"/>	<input type="radio"/>
An interactive webchat feature on a company website can be implemented by using Azure Bot Service.	<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"/>

**NEW QUESTION 30**

HOTSPOT - (Topic 5)

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
The following service call will accept English text as an input and output Italian and French text. /translate?from=it&to=fr&to=en	<input type="radio"/>	<input type="radio"/>
The following service call will accept English text as an input and output Italian and French text. /translate?from=en&to=fr&to=it	<input type="radio"/>	<input type="radio"/>
The Translator service can be used to translate documents from English to French.	<input type="radio"/>	<input type="radio"/>

- A. Mastered
- B. Not Mastered

**Answer:** A

**Explanation:**

**Answer Area**

Statements	Yes	No
The following service call will accept English text as an input and output Italian and French text. /translate?from=it&to=fr&to=en	<input checked="" type="radio"/>	<input type="radio"/>
The following service call will accept English text as an input and output Italian and French text. /translate?from=en&to=fr&to=it	<input checked="" type="radio"/>	<input type="radio"/>
The Translator service can be used to translate documents from English to French.	<input checked="" type="radio"/>	<input type="radio"/>

**NEW QUESTION 34**

DRAG DROP - (Topic 5)

Match the Azure Cognitive Services to the appropriate AI workloads.

To answer, drag the appropriate service from the column on the left to its workload 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
Custom Vision	<input type="text"/> Identify objects in an image.
Face	<input type="text"/> Automatically import data from an invoice to a database.
Form Recognizer	<input type="text"/> Identify people in an image.

- A. Mastered
- B. Not Mastered

**Answer:** A

**NEW QUESTION 35**

HOTSPOT - (Topic 5)

Select the answer that correctly completes the sentence.

**Answer Area**

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

- classification.
- clustering.
- regression.
- classification.**
- regularization.

- A. Mastered
- B. Not Mastered

**Answer:** A

**Explanation:**

**Answer Area**

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

- classification.
- clustering.
- regression.
- classification.**
- regularization.

**NEW QUESTION 40**

- (Topic 5)

Which type of natural language processing (NLP) entity is used to identify a phone number?

- A. regular expression
- B. machine-learned
- C. list
- D. Pattern-any

**Answer:** C

**NEW QUESTION 42**

- (Topic 5)

You have an AI-based loan approval system.

During testing, you discover that the system has a gender bias. Which responsible AI principle does this violate?

- A. accountability
- B. transparency
- C. fairness
- D. reliability and safety

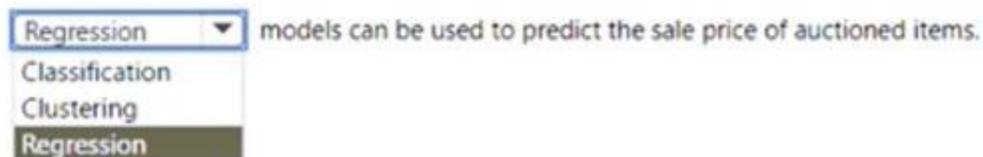
**Answer:** C

**NEW QUESTION 43**

HOTSPOT - (Topic 5)

Select the answer that correctly completes the sentence.

**Answer Area**

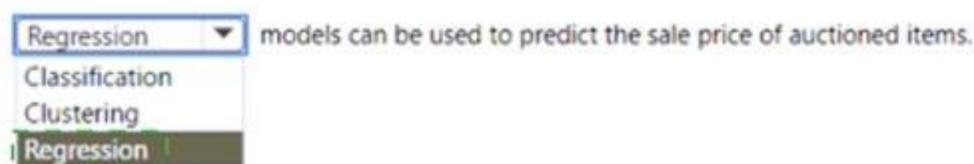


- A. Mastered
- B. Not Mastered

**Answer:** A

**Explanation:**

**Answer Area**



**NEW QUESTION 45**

- (Topic 5)

You need to implement a pre-built solution that will identify well-known brands in digital photographs. Which Azure AI service should you use?

- A. Face
- B. Custom Vision
- C. Computer Vision
- D. Form Recognizer

**Answer:** C

**NEW QUESTION 48**

- (Topic 5)

An app that analyzes social media posts to identify their tone is an example of which type of natural language processing (NLP) workload?

- A. sentiment analysis
- B. key phrase extraction
- C. entity recognition
- D. speech recognition

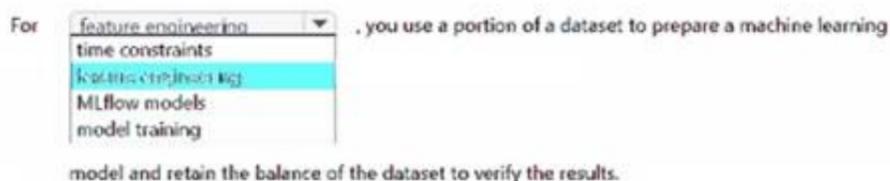
**Answer:** A

**NEW QUESTION 52**

HOTSPOT - (Topic 5)

Select the answer that correctly completes the sentence.

**Answer Area**

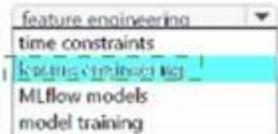


- A. Mastered
- B. Not Mastered

**Answer:** A

**Explanation:**

Answer Area

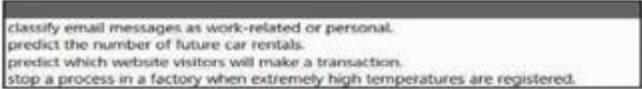
For  , you use a portion of a dataset to prepare a machine learning model and retain the balance of the dataset to verify the results.

**NEW QUESTION 57**

HOTSPOT - (Topic 5)

Select the answer that correctly completes the sentence.

Answer Area

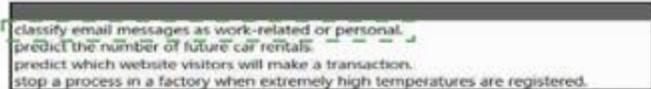
Natural language processing can be used to 

- A. Mastered
- B. Not Mastered

Answer: A

**Explanation:**

Answer Area

Natural language processing can be used to 

**NEW QUESTION 58**

- (Topic 5)

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

**NEW QUESTION 59**

- (Topic 5)

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 duster.
- B. Explain the model.
- C. Register the model.
- D. Register the training data.

Answer: C

**NEW QUESTION 61**

- (Topic 5)

You need to identify street names based on street signs in photographs. Which type of computer vision should you use?

- A. object detection
- B. optical character recognition (OCR)
- C. image classification
- D. facial recognition

Answer: C

**NEW QUESTION 64**

HOTSPOT - (Topic 5)

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
Chatbots can only be built by using custom code.	<input type="radio"/>	<input type="radio"/>
The Azure Bot Service provides services that can be used to host conversational bots.	<input type="radio"/>	<input type="radio"/>
Bots built by using the Azure Bot Service can communicate with Microsoft Teams users.	<input type="radio"/>	<input type="radio"/>

- A. Mastered
- B. Not Mastered

Answer: A

Explanation:

Answer Area

Statements	Yes	No
Chatbots can only be built by using custom code.	<input type="radio"/>	<input checked="" type="radio"/>
The Azure Bot Service provides services that can be used to host conversational bots.	<input checked="" type="radio"/>	<input type="radio"/>
Bots built by using the Azure Bot Service can communicate with Microsoft Teams users.	<input checked="" type="radio"/>	<input type="radio"/>

**NEW QUESTION 69**

HOTSPOT - (Topic 5)

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
Object detection can identify the location of a damaged product in an image.	<input type="radio"/>	<input type="radio"/>
Object detection can identify multiple instances of a damaged product in an image.	<input type="radio"/>	<input type="radio"/>
Object detection can identify multiple types of damaged products in an image.	<input type="radio"/>	<input type="radio"/>

- A. Mastered
- B. Not Mastered

Answer: A

Explanation:

Answer Area

Statements	Yes	No
Object detection can identify the location of a damaged product in an image.	<input checked="" type="radio"/>	<input type="radio"/>
Object detection can identify multiple instances of a damaged product in an image.	<input type="radio"/>	<input checked="" type="radio"/>
Object detection can identify multiple types of damaged products in an image.	<input checked="" type="radio"/>	<input type="radio"/>

**NEW QUESTION 70**

HOTSPOT - (Topic 5)

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 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"/>

- A. Mastered
- B. Not Mastered

Answer: A

Explanation:

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 type="radio"/>	<input type="radio"/>
You can use the Translator service to transcribe audible speech into text.	<input type="radio"/>	<input type="radio"/>

**NEW QUESTION 73**

HOTSPOT - (Topic 5)

Select the answer that correctly completes the sentence.

**Answer Area**

A historian can use optical character recognition (OCR) ▼ to digitize newspaper articles.

- facial analysis
- image classification
- object detection
- optical character recognition (OCR)

- A. Mastered
- B. Not Mastered

Answer: A

Explanation:

**Answer Area**

A historian can use optical character recognition (OCR) ▼ to digitize newspaper articles.

- facial analysis
- image classification
- object detection
- optical character recognition (OCR)

**NEW QUESTION 78**

HOTSPOT - (Topic 5)

Select the answer that correctly completes the sentence.

Azure Machine Learning designer lets you create machine learning models by

- adding and connecting modules on a visual canvas.
- adding and connecting modules on a visual canvas.
- automatically performing common data preparation tasks.
- automatically selecting an algorithm to build the most accurate model.
- using a code-first notebook experience.

- A. Mastered
- B. Not Mastered

Answer: A

Explanation:

Azure Machine Learning designer lets you create machine learning models by

- adding and connecting modules on a visual canvas.
- adding and connecting modules on a visual canvas.
- automatically performing common data preparation tasks.
- automatically selecting an algorithm to build the most accurate model.
- using a code-first notebook experience.

**NEW QUESTION 82**

HOTSPOT - (Topic 5)

Select the answer that correctly completes the sentence.

Answer Area

Optical character recognition (OCR) extracts text from handwritten documents.

- Object detection
- Facial recognition
- Image classification
- Optical character recognition (OCR)

- A. Mastered
- B. Not Mastered

Answer: A

Explanation:

Answer Area

Optical character recognition (OCR) extracts text from handwritten documents.

- Object detection
- Facial recognition
- Image classification
- Optical character recognition (OCR)

**NEW QUESTION 86**

HOTSPOT - (Topic 5)

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

Answer Area

Returning a bounding box that indicates the location of a vehicle in an image is an example of

- image classification.
- object detection.
- optical character recognition (OCR).
- facial detection.

- A. Mastered
- B. Not Mastered

Answer: A

Explanation:

Answer Area

Returning a bounding box that indicates the location of a vehicle in an image is an example of

- image classification.
- object detection.
- optical character recognition (OCR).
- facial detection.

**NEW QUESTION 91**

HOTSPOT - (Topic 5)

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

recognition. ▾

analysis.

detection.

recognition.

- A. Mastered
- B. Not Mastered

**Answer:** A

**Explanation:**

**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

recognition. ▾

analysis.

detection.

recognition.

**NEW QUESTION 93**

HOTSPOT - (Topic 5)

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
Azure Bot Service and Azure Cognitive Services can be integrated.	<input type="radio"/>	<input type="radio"/>
Azure Bot Service engages with customers in a conversational manner.	<input type="radio"/>	<input type="radio"/>
Azure Bot Service can import frequently asked questions (FAQ) to question and answer sets.	<input type="radio"/>	<input type="radio"/>

- A. Mastered
- B. Not Mastered

**Answer:** A

**Explanation:**

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.

**NEW QUESTION 96**

- (Topic 5)

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

**Answer:** DE

**NEW QUESTION 99**

HOTSPOT - (Topic 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.

Statements	Yes	No
You can communicate with a bot by using email.	<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"/>

- A. Mastered
- B. Not Mastered

**Answer:** A

**Explanation:**

Statements	Yes	No
You can communicate with a bot by using email.	<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"/>

**NEW QUESTION 103**

- (Topic 5)

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:**

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

**NEW QUESTION 104**

HOTSPOT - (Topic 5)

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 natural language processing workload.	<input type="radio"/>	<input type="radio"/>
A mobile application that displays images relating to an entered search term is an example of a natural language processing workload.	<input type="radio"/>	<input type="radio"/>
A web form used to submit a request to reset a password is an example of a natural language processing workload.	<input type="radio"/>	<input type="radio"/>

- A. Mastered
- B. Not Mastered

**Answer:** A

**Explanation:**

Answer Area

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

**NEW QUESTION 105**

HOTSPOT - (Topic 4)

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

**Answer Area**

Natural language processing can be used to

classify email messages as work-related or personal.

predict the number of future car rentals.

predict which website visitors will make a transaction.

stop a process in a factory when extremely high temperatures are registered.

- A. Mastered
- B. Not Mastered

**Answer:** A

**Explanation:**

Natural language processing (NLP) is used for tasks such as sentiment analysis, topic detection, language detection, key phrase extraction, and document categorization.

**NEW QUESTION 108**

- (Topic 4)

Which AI service can you use to interpret the meaning of a user input such as "Call me back later?"

- A. Translator Text
- B. Text Analytics
- C. Speech
- D. Language Understanding (LUIS)

**Answer:** D

**Explanation:**

<https://docs.microsoft.com/en-us/azure/cognitive-services/luis/what-is-luis>

**NEW QUESTION 109**

- (Topic 4)

You are authoring a Language Understanding (LUIS) application to support a music festival.

You want users to be able to ask questions about scheduled shows, such as: "Which act is playing on the main stage?"

The question "Which act is playing on the main stage?" is an example of which type of element?

- A. an intent
- B. an utterance
- C. a domain
- D. an entity

**Answer:** B

**Explanation:**

Utterances are input from the user that your app needs to interpret. Reference:

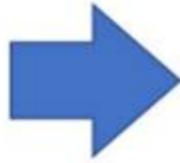
<https://docs.microsoft.com/en-us/azure/cognitive-services/LUIS/luis-concept-utterance>

**NEW QUESTION 111**

- (Topic 4)

You use natural language processing to process text from a Microsoft news story. You receive the output shown in the following exhibit.

For weeks now, students and teachers have been settling into the uncharted routine of distance learning. Today I want to thank all of the educators who are connecting classrooms and classmates together in the sudden shift to remote learning. This change requires everyone working together and is unlike anything we've seen in the modern history of education. We've seen countries, school districts and universities move rapidly into remote learning environments with Microsoft Teams being used in 175 countries by 183,000 institutions.



now [DateTime]  
students [PersonType]  
teachers [PersonType]  
distance learning [Skill]  
Today [DateTime-Date]  
educators [PersonType]  
classrooms [Location]  
classmates [PersonType]  
remote learning [Skill]  
history [Skill]  
education [Skill]  
remote learning [Skill]  
Microsoft [Organization]  
175 [Quantity-Number]  
183,000 [Quantity-Number]

Which type of natural languages processing was performed?

- A. entity recognition
- B. key phrase extraction
- C. sentiment analysis
- D. translation

**Answer:** A

**Explanation:**

<https://docs.microsoft.com/en-us/azure/cognitive-services/text-analytics/overview>

You can provide the Text Analytics service with unstructured text and it will return a list of entities in the text that it recognizes. You can provide the Text Analytics service with unstructured text and it will return a list of entities in the text that it recognizes. The service can also provide links to more information about that entity on the web. An entity is essentially an item of a particular type or a category; and in some cases, subtype, such as those as shown in the following table.

<https://docs.microsoft.com/en-us/learn/modules/analyze-text-with-text-analytics-service/2-get-started-azure>

**NEW QUESTION 112**

HOTSPOT - (Topic 4)

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
The Text Analytics service can identify in which language text is written.	<input type="radio"/>	<input type="radio"/>
The Text Analytics service can detect handwritten signatures in a document.	<input type="radio"/>	<input type="radio"/>
The Text Analytics service can identify companies and organizations mentioned in a document.	<input type="radio"/>	<input type="radio"/>

- A. Mastered
- B. Not Mastered

**Answer:** A

**Explanation:**

The Text Analytics API is a cloud-based service that provides advanced natural language processing over raw text, and includes four main functions: sentiment analysis, key phrase extraction, named entity recognition, and language detection.

Box 1: Yes

You can detect which language the input text is written in and report a single language code for every document submitted on the request in a wide range of languages, variants, dialects, and some regional/cultural languages. The language code is paired with a score indicating the strength of the score.

Box 2: No

Box 3: Yes

Named Entity Recognition: Identify and categorize entities in your text as people, places, organizations, date/time, quantities, percentages, currencies, and more. Well-known entities are also recognized and linked to more information on the web.

**NEW QUESTION 117**

- (Topic 4)

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

**Answer:** D

**Explanation:**

Reference:  
<https://docs.microsoft.com/en-us/azure/cognitive-services/QnAMaker/Overview/overview>

**NEW QUESTION 120**

HOTSPOT - (Topic 4)

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
Monitoring online service reviews for profanities is an example of natural language processing.	<input type="radio"/>	<input type="radio"/>
Identifying brand logos in an image is an example of natural languages processing.	<input type="radio"/>	<input type="radio"/>
Monitoring public news sites for negative mentions of a product is an example of natural language processing.	<input type="radio"/>	<input type="radio"/>

- A. Mastered
- B. Not Mastered

**Answer:** A

**Explanation:**

Box 1: Yes

Content Moderator is part of Microsoft Cognitive Services allowing businesses to use machine assisted moderation of text, images, and videos that augment human review.

The text moderation capability now includes a new machine-learning based text classification feature which uses a trained model to identify possible abusive, derogatory or discriminatory language such as slang, abbreviated words, offensive, and intentionally misspelled words for review.

Box 2: No

Azure's Computer Vision service gives you access to advanced algorithms that process images and return information based on the visual features you're interested in. For example, Computer Vision can determine whether an image contains adult content, find specific brands or objects, or find human faces.

Box 3: Yes

Natural language processing (NLP) is used for tasks such as sentiment analysis, topic detection, language detection, key phrase extraction, and document categorization.

Sentiment Analysis is the process of determining whether a piece of writing is positive, negative or neutral.

**NEW QUESTION 124**

- (Topic 4)

You need to make the press releases of your company available in a range of languages. Which service should you use?

- A. Translator Text
- B. Text Analytics
- C. Speech
- D. Language Understanding (LUIS)

**Answer:** A

**Explanation:**

Press release is a written communication. Speech wouldn't make sense. Plus, the Speech service doesn't translate languages, it "translates" audio into text, and vice versa.

<https://docs.microsoft.com/en-us/learn/modules/translate-text-with-translation-service/2-get-started-azure>

**NEW QUESTION 126**

- (Topic 4)

You are developing a Chabot solution in Azure.

Which service should you use to determine a user's intent?

- A. Translator
- B. Azure Cognitive Search
- C. Speech

D. Language

**Answer:** B

**Explanation:**

Language Understanding (LUIS) is a cloud-based API service that applies custom machine-learning intelligence to a user's conversational, natural language text to predict overall meaning, and pull out relevant, detailed information.

Design your LUIS model with categories of user intentions called intents. Each intent needs examples of user utterances. Each utterance can provide data that needs to be extracted with machine-learning entities.

Reference:

<https://docs.microsoft.com/en-us/azure/cognitive-services/luis/what-is-luis>

**NEW QUESTION 127**

- (Topic 4)

Your website has a chatbot to assist customers.

You need to detect when a customer is upset based on what the customer types in the chatbot.

Which type of AI workload should you use?

- A. anomaly detection
- B. semantic segmentation
- C. regression
- D. natural language processing

**Answer:** D

**Explanation:**

Natural language processing (NLP) is used for tasks such as sentiment analysis, topic detection, language detection, key phrase extraction, and document categorization.

Sentiment Analysis is the process of determining whether a piece of writing is positive, negative or neutral.

Reference:

<https://docs.microsoft.com/en-us/azure/architecture/data-guide/technology-choices/natural-language-processing>

**NEW QUESTION 130**

- (Topic 4)

You build a QnA Maker bot by using a frequently asked questions (FAQ) page.

You need to add professional greetings and other responses to make the bot more user friendly.

What should you do?

- A. Increase the confidence threshold of responses
- B. Enable active learning
- C. Create multi-turn questions
- D. Add chit-chat

**Answer:** D

**Explanation:**

Reference:

<https://docs.microsoft.com/en-us/azure/cognitive-services/qnamaker/how-to/chit-chat-knowledge-base?tabs=v1>

**NEW QUESTION 135**

- (Topic 4)

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.

Reference:

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

**NEW QUESTION 136**

DRAG DROP - (Topic 4)

Match the types of natural languages 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 selection is worth one point.

Workloads Types	Answer Area
Entity recognition	Workload Type Extracts persons, locations, and organizations from the text
Key phrase extraction	Workload Type Evaluates text along a positive-negative scale
Language modeling	Workload Type Returns text translated to the specified target language
Sentiment analysis	
Natural language processing	
Translation	
Speech recognition and speech synthesis	

- A. Mastered
- B. Not Mastered

**Answer:** A

**Explanation:**

Box 1: Entity recognition

Classify a broad range of entities in text, such as people, places, organisations, date/time and percentages, using named entity recognition. Whereas:- Get a list of relevant phrases that best describe the subject of each record using key phrase extraction.

Box 2: Sentiment analysis

Sentiment Analysis is the process of determining whether a piece of writing is positive, negative or neutral.

Box 3: Translation

Using Microsoft's Translator text API

This versatile API from Microsoft can be used for the following: Translate text from one language to another.

Transliterate text from one script to another. Detecting language of the input text.

Find alternate translations to specific text. Determine the sentence length.

**NEW QUESTION 137**

- (Topic 4)

You have insurance claim reports that are stored as text.

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>

**NEW QUESTION 141**

- (Topic 4)

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)

**Answer:** C

**Explanation:**

Reference:

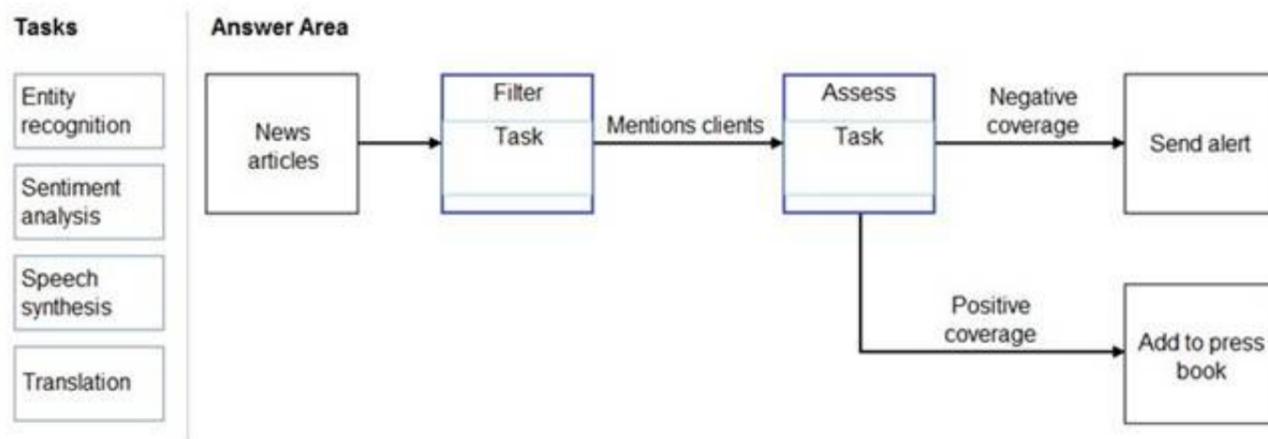
<https://azure.microsoft.com/en-us/services/cognitive-services/text-to-speech/#features>

**NEW QUESTION 143**

DRAG DROP - (Topic 4)

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.



- A. Mastered
- B. Not Mastered

**Answer:** A

**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.

**NEW QUESTION 144**

- (Topic 3)

You need to determine the location of cars in an image so that you can estimate the distance between the cars.

Which type of computer vision should you use?

- A. optical character recognition (OCR)
- B. object detection
- C. image classification
- D. face detection

**Answer:** B

**Explanation:**

Object detection is similar to tagging, but the API returns the bounding box coordinates (in pixels) for each object found. For example, if an image contains a dog, cat and person, the Detect operation will list those objects together with their coordinates in the image. You can use this functionality to process the relationships between the objects in an image. It also lets you determine whether there are multiple instances of the same tag in an image.

The Detect API applies tags based on the objects or living things identified in the image.

There is currently no formal relationship between the tagging taxonomy and the object detection taxonomy. At a conceptual level, the Detect API only finds objects and living things, while the Tag API can also include contextual terms like "indoor", which can't be localized with bounding boxes.

Reference:

<https://docs.microsoft.com/en-us/azure/cognitive-services/computer-vision/concept-object-detection>

**NEW QUESTION 148**

- (Topic 3)

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

**NEW QUESTION 149**

HOTSPOT - (Topic 3)

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
When creating an object detection model in the Custom Vision service, you must choose a classification type of either <b>Multilabel</b> or <b>Multiclass</b> .	<input type="radio"/>	<input type="radio"/>
You can create an object detection model in the Custom Vision service to find the location of content within an image.	<input type="radio"/>	<input type="radio"/>
When creating an object detection model in the Custom Vision service, you can select from a set of predefined domains.	<input type="radio"/>	<input type="radio"/>

- A. Mastered
- B. Not Mastered

**Answer:** A

**Explanation:**

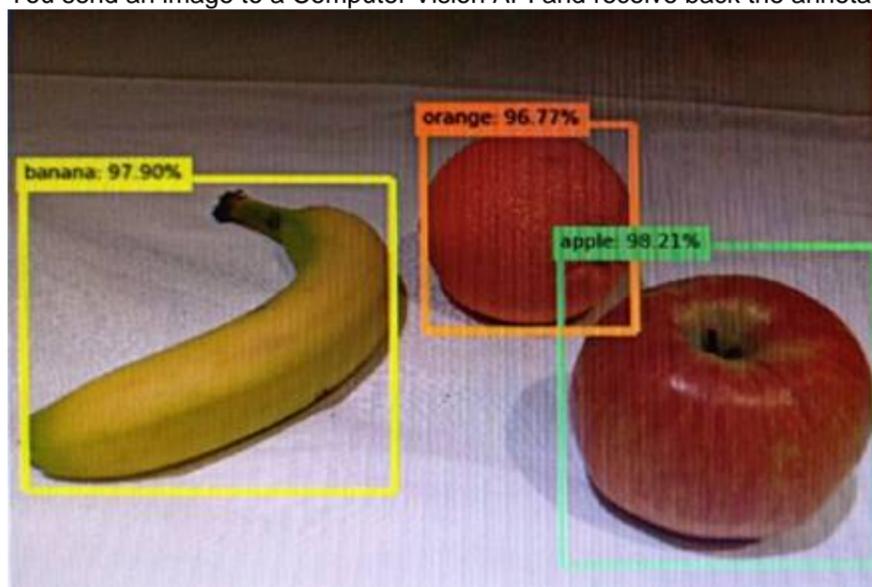
**Answer Area**

Statements	Yes	No
When creating an object detection model in the Custom Vision service, you must choose a classification type of either <b>Multilabel</b> or <b>Multiclass</b> .	<input type="radio"/>	<input checked="" type="radio"/>
You can create an object detection model in the Custom Vision service to find the location of content within an image.	<input checked="" type="radio"/>	<input type="radio"/>
When creating an object detection model in the Custom Vision service, you can select from a set of predefined domains.	<input checked="" type="radio"/>	<input type="radio"/>

**NEW QUESTION 150**

- (Topic 3)

You send an image to a Computer Vision API and receive back the annotated image shown in the exhibit.



Which type of computer vision was used?

- A. object detection
- B. semantic segmentation
- C. optical character recognition (OCR)
- D. image classification

**Answer:** A

**Explanation:**

Object detection is similar to tagging, but the API returns the bounding box coordinates (in pixels) for each object found. For example, if an image contains a dog, cat and person, the Detect operation will list those objects together with their coordinates in the image. You can use this functionality to process the relationships between the objects in an image. It also lets you determine whether there are multiple instances of the same tag in an image. The Detect API applies tags based on the objects or living things identified in the image. There is currently no formal relationship between the tagging taxonomy and the object detection taxonomy. At a conceptual level, the Detect API only finds objects and living things, while the Tag API can also include contextual terms

like "indoor", which can't be localized with bounding boxes.

Reference:

<https://docs.microsoft.com/en-us/azure/cognitive-services/computer-vision/concept-object-detection>

**NEW QUESTION 153**

DRAG DROP - (Topic 3)

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.

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?

- A. Mastered
- B. Not Mastered

**Answer:** A

**Explanation:**

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.

**NEW QUESTION 154**

- (Topic 2)

You are building a tool that will process images from retail stores and identify the products of competitors.

The solution will use a custom model.

Which Azure Cognitive Services service should you use?

- A. Custom Vision
- B. Form Recognizer
- C. Face
- D. Computer Vision

**Answer:** A

**Explanation:**

Reference:

<https://docs.microsoft.com/en-us/azure/cognitive-services/custom-vision-service/overview>

**NEW QUESTION 159**

- (Topic 2)

Which type of machine learning should you use to predict the number of gift cards that will be sold next month?

- A. classification
- B. regression
- C. clustering

**Answer:** B

**NEW QUESTION 160**

HOTSPOT - (Topic 3)

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

**Answer Area**

You can use the \_\_\_\_\_ service to train an object detection model by using your own images.

- Computer Vision
- Custom Vision
- Form Recognizer
- Video Indexer

- A. Mastered
- B. Not Mastered

**Answer:** A

**Explanation:**

Azure Custom Vision is a cognitive service that lets you build, deploy, and improve your own image classifiers. An image classifier is an AI service that applies labels (which represent classes) to images, according to their visual characteristics. Unlike the Computer Vision service, Custom Vision allows you to specify the labels to apply.

Note: The Custom Vision service uses a machine learning algorithm to apply labels to images. You, the developer, must submit groups of images that feature and lack the characteristics in question. You label the images yourself at the time of submission. Then the algorithm trains to this data and calculates its own accuracy by testing itself on those same images. Once the algorithm is trained, you can test, retrain, and eventually use it to classify new images according to the needs of your app. You can also export the model itself for offline use.

**NEW QUESTION 165**

- (Topic 3)

Your company wants to build a recycling machine for bottles. The recycling machine must automatically identify bottles of the correct shape and reject all other items.

Which type of AI workload should the company use?

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

**Answer:** C

**Explanation:**

Azure's Computer Vision service gives you access to advanced algorithms that process images and return information based on the visual features you're interested in. For example, Computer Vision can determine whether an image contains adult content, find specific brands or objects, or find human faces.

Reference:

<https://docs.microsoft.com/en-us/azure/cognitive-services/computer-vision/overview>

**NEW QUESTION 170**

DRAG DROP - (Topic 3)

Match the types of computer vision 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 selection is worth one point.

**Workloads Types**

- Facial recognition
- Image classification
- Object detection
- Optical character recognition (OCR)

**Answer Area**

- Workload Type Identify celebrities in images.
- Workload Type Extract movie title names from movie poster images.
- Workload Type Locate vehicles in images.

- A. Mastered
- B. Not Mastered

**Answer:** A

**Explanation:**

Box 1: Facial recognition

Face detection that perceives faces and attributes in an image; person identification that matches an individual in your private repository of up to 1 million people; perceived emotion recognition that detects a range of facial expressions like happiness, contempt, neutrality, and fear; and recognition and grouping of similar faces in images.

Box 2: OCR

Box 3: Objection detection

Object detection is similar to tagging, but the API returns the bounding box coordinates (in pixels) for each object found. For example, if an image contains a dog, cat and person, the Detect operation will list those objects together with their coordinates in the image. You can use this functionality to process the relationships between the objects in an image. It also lets you determine whether there are multiple instances of the same tag in an image.

The Detect API applies tags based on the objects or living things identified in the image. There is currently no formal relationship between the tagging taxonomy and the object detection taxonomy. At a conceptual level, the Detect API only finds objects and living things, while the Tag API can also include contextual terms like "indoor", which can't be localized with bounding boxes.

**NEW QUESTION 173**

- (Topic 3)

What are two tasks that can be performed by using computer vision? Each correct answer presents a complete solution.

NOTE: Each correct selection is worth one point.

- A. Predict stock prices.
- B. Detect brands in an image.

- C. Detect the color scheme in an image
- D. Translate text between languages.
- E. Extract key phrases.

**Answer:** BC

**NEW QUESTION 177**

HOTSPOT - (Topic 2)

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

	▼
Accuracy	
Confidence	
Root Mean Square Error	
Sentiment	

is the calculated probability of a correct image classification.

- A. Mastered
- B. Not Mastered

**Answer:** A

**Explanation:**

	▼
Accuracy	
Confidence	
Root Mean Square Error	
Sentiment	

is the calculated probability of a correct image classification.

**NEW QUESTION 178**

- (Topic 2)

You have a dataset that contains information about taxi journeys that occurred during a given period. You need to train a model to predict the fare of a taxi journey. What should you use as a feature?

- A. the number of taxi journeys in the dataset
- B. the trip distance of individual taxi journeys
- C. the fare of individual taxi journeys
- D. the trip ID of individual taxi journeys

**Answer:** B

**Explanation:**

The label is the column you want to predict. The identified Features are the inputs you give the model to predict the Label.

Example:

The provided data set contains the following columns:

vendor\_id: The ID of the taxi vendor is a feature. rate\_code: The rate type of the taxi trip is a feature.

passenger\_count: The number of passengers on the trip is a feature.

trip\_time\_in\_secs: The amount of time the trip took. You want to predict the fare of the trip before the trip is completed. At that moment, you don't know how long the trip would take.

Thus, the trip time is not a feature and you'll exclude this column from the model. trip\_distance: The distance of the trip is a feature.

payment\_type: The payment method (cash or credit card) is a feature. fare\_amount: The total taxi fare paid is the label.

Reference:

<https://docs.microsoft.com/en-us/dotnet/machine-learning/tutorials/predict-prices>

**NEW QUESTION 179**

HOTSPOT - (Topic 2)

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
Automated machine learning provides you with the ability to include custom Python scripts in a training pipeline.	<input type="radio"/>	<input type="radio"/>
Automated machine learning implements machine learning solutions without the need for programming experience.	<input type="radio"/>	<input type="radio"/>
Automated machine learning provides you with the ability to visually connect datasets and modules on an interactive canvas.	<input type="radio"/>	<input type="radio"/>

- A. Mastered
- B. Not Mastered

**Answer:** A

**Explanation:**

**Answer Area**

Statements	Yes	No
Automated machine learning provides you with the ability to include custom Python scripts in a training pipeline.	<input checked="" type="radio"/>	<input type="radio"/>
Automated machine learning implements machine learning solutions without the need for programming experience.	<input checked="" type="radio"/>	<input type="radio"/>
Automated machine learning provides you with the ability to visually connect datasets and modules on an interactive canvas.	<input checked="" type="radio"/>	<input type="radio"/>

**NEW QUESTION 181**

HOTSPOT - (Topic 2)

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

models can be used to predict the sale price of auctioned items.

- Classification
- Clustering
- Regression

- A. Mastered
- B. Not Mastered

**Answer:** A

**Explanation:**

Regression is a machine learning task that is used to predict the value of the label from a set of related features.

**NEW QUESTION 182**

- (Topic 2)

You need to predict the income range of a given customer by using the following dataset.

First Name	Last Name	Age	Education Level	Income Range
Orlando	Gee	45	University	25,000-50,000
Keith	Harris	36	High school	25,000-50,000
Donna	Carreras	52	University	50,000-75,000
Janet	Gates	21	University	75,000-100,000
Lucy	Harrington	68	High school	50,000-75,000

Which two fields should you use as features? Each correct answer presents a complete solution.

NOTE: Each correct selection is worth one point.

- A. Education Level
- B. Last Name
- C. Age
- D. Income Range
- E. First Name

**Answer:** AC

**Explanation:**

First Name, Last Name, Age and Education Level are features. Income range is a label (what you want to predict). First Name and Last Name are irrelevant in that they have no bearing on income. Age and Education level are the features you should use.

**NEW QUESTION 187**

HOTSPOT - (Topic 2)

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

Ensuring that the numeric variables in training data are on a similar scale is an example of

	▼
data ingestion.	
feature engineering.	
feature selection.	
model training.	

- A. Mastered
- B. Not Mastered

**Answer:** A

**Explanation:**

Ensuring that the numeric variables in training data are on a similar scale is an example of

	▼
data ingestion.	
feature engineering.	
feature selection.	
model training.	

**NEW QUESTION 190**

- (Topic 2)

You are evaluating whether to use a basic workspace or an enterprise workspace in Azure Machine Learning.

What are two tasks that require an enterprise workspace? Each correct answer presents a complete solution.

NOTE: Each correct selection is worth one point.

- A. Use a graphical user interface (GUI) to run automated machine learning experiments.
- B. Create a compute instance to use as a workstation.
- C. Use a graphical user interface (GUI) to define and run machine learning experiments from Azure Machine Learning designer.
- D. Create a dataset from a comma-separated value (CSV) file.

**Answer:** AC

**Explanation:**

Note: Enterprise workspaces are no longer available as of September 2020. The basic workspace now has all the functionality of the enterprise workspace.

Reference:

<https://www.azure.cn/en-us/pricing/details/machine-learning/> <https://docs.microsoft.com/en-us/azure/machine-learning/concept-workspace>

**NEW QUESTION 194**

- (Topic 2)

You need to predict the sea level in meters for the next 10 years. Which type of machine learning should you use?

- A. classification
- B. regression
- C. clustering

**Answer:** C

**Explanation:**

In the most basic sense, regression refers to prediction of a numeric target. Linear regression attempts to establish a linear relationship between one or more independent variables and a numeric outcome, or dependent variable.

You use this module to define a linear regression method, and then train a model using a labeled dataset. The trained model can then be used to make predictions.

Reference:

<https://docs.microsoft.com/en-us/azure/machine-learning/studio-module-reference/linear-regression>

Regression is a form of machine learning that is used to predict a numeric label based on an item's features.

<https://docs.microsoft.com/en-us/learn/modules/create-regression-model-azure-machine-learning-designer/introduction>

**NEW QUESTION 196**

HOTSPOT - (Topic 2)

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

Ensuring an AI system does not provide a prediction when important fields contain unusual or missing values is  principle for responsible AI.

<input type="text"/>	▼
an inclusiveness	
a privacy and security	
a reliability and safety	
a transparency	

- A. Mastered
- B. Not Mastered

**Answer:** A

**Explanation:**

Ensuring an AI system does not provide a prediction when important fields contain unusual or missing values is  principle for responsible AI.

<input type="text"/>	▼
an inclusiveness	
a privacy and security	
a reliability and safety	
a transparency	

**NEW QUESTION 198**

- (Topic 1)

Your company is exploring the use of voice recognition technologies in its smart home devices. The company wants to identify any barriers that might unintentionally leave out specific user groups.

This an example of which Microsoft guiding principle for responsible AI?

- A. accountability
- B. fairness
- C. inclusiveness
- D. privacy and security

**Answer:** C

**Explanation:**

Reference:

<https://docs.microsoft.com/en-us/learn/modules/responsible-ai-principles/4-guiding-principles>

AI systems should empower everyone and engage people. AI should bring benefits to all parts of society, regardless of physical ability, gender, sexual orientation, ethnicity, or other factors.

<https://docs.microsoft.com/en-us/learn/modules/get-started-ai-fundamentals/7-understand-responsible-ai>

**NEW QUESTION 201**

HOTSPOT - (Topic 1)

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
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"/>

- A. Mastered
- B. Not Mastered

**Answer:** A

**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.

**NEW QUESTION 204**

- (Topic 1)

When you design an AI system to assess whether loans should be approved, the factors used to make the decision should be explainable. This is an example of which Microsoft guiding principle for responsible AI?

- A. transparency
- B. inclusiveness
- C. fairness
- D. privacy and security

**Answer: A**

**Explanation:**

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.

Reference:

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

<https://docs.microsoft.com/en-us/azure/cloud-adoption-framework/strategy/responsible-ai>

**NEW QUESTION 206**

- (Topic 1)

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.

**Answer: B**

**Explanation:**

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/>

**NEW QUESTION 208**

DRAG DROP - (Topic 1)

Match the types of AI 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 selection is worth one point.

Workloads Types	Answer Area
Anomaly detection	Workload Type: An automated chat to answer questions about refunds and exchange
Computer vision	Workload Type: Determining whether a photo contains a person
Conversational AI	Workload Type: Determining whether a review is positive or negative
Knowledge mining	
Natural language processing	

- A. Mastered
- B. Not Mastered

**Answer: A**

**Explanation:**

Box 3: Natural language processing

Natural language processing (NLP) is used for tasks such as sentiment analysis, topic detection, language detection, key phrase extraction, and document categorization.

**NEW QUESTION 210**

HOTSPOT - (Topic 1)

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

**Answer Area**

The handling of unusual or missing values provided to an AI system is a consideration for the Microsoft  principle for responsible AI.

- inclusiveness
- privacy and security
- reliability and safety
- transparency

- A. Mastered
- B. Not Mastered

**Answer:** A

**Explanation:**

Reliability & Safety [https://en.wikipedia.org/wiki/Tay\\_\(bot\)](https://en.wikipedia.org/wiki/Tay_(bot))

“To build trust, it’s critical that AI systems operate reliably, safely, and consistently under normal circumstances and in unexpected conditions. These systems should be able to operate as they were originally designed, respond safely to unanticipated conditions, and resist harmful manipulation. It’s also important to be able to verify that these systems are behaving as intended under actual operating conditions. How they behave and the variety of conditions they can handle reliably and safely largely reflects the range of situations and circumstances that developers anticipate during design and testing. We believe that rigorous testing is essential during system development and deployment to ensure AI systems can respond safely in unanticipated situations and edge cases, don’t have unexpected performance failures, and don’t evolve in ways that are inconsistent with original expectations”

**NEW QUESTION 212**

- (Topic 1)

You are building an AI system.

Which task should you include to ensure that the service meets the Microsoft transparency principle for responsible AI?

- A. Ensure that all visuals have an associated text that can be read by a screen reader.
- B. Enable autoscaling to ensure that a service scales based on demand.
- C. Provide documentation to help developers debug code.
- D. Ensure that a training dataset is representative of the population.

**Answer:** C

**Explanation:**

Reference:

<https://docs.microsoft.com/en-us/learn/modules/responsible-ai-principles/4-guiding-principles>

**NEW QUESTION 214**

- (Topic 1)

A company employs a team of customer service agents to provide telephone and email support to customers.

The company develops a webchat bot to provide automated answers to common customer queries.

Which business benefit should the company expect as a result of creating the webchat bot solution?

- A. increased sales
- B. a reduced workload for the customer service agents
- C. improved product reliability

**Answer:** B

**NEW QUESTION 215**

HOTSPOT - (Topic 1)

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

### Answer Area

is used to generate additional features.

- Feature engineering
- Feature selection
- Model evaluation
- Model training

- A. Mastered
- B. Not Mastered

**Answer:** A

**Explanation:**

### Answer Area

is used to generate additional features.

- Feature engineering
- Feature selection
- Model evaluation
- Model training

#### NEW QUESTION 216

- (Topic 1)

You are building an AI-based app.

You need to ensure that the app uses the principles for responsible AI.

Which two principles should you follow? Each correct answer presents part of the solution.

NOTE: Each correct selection is worth one point.

- A. Implement an Agile software development methodology
- B. Implement a process of AI model validation as part of the software review process
- C. Establish a risk governance committee that includes members of the legal team, members of the risk management team, and a privacy officer
- D. Prevent the disclosure of the use of AI-based algorithms for automated decision making

**Answer:** BC

**Explanation:**

Reference:

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

<https://docs.microsoft.com/en-us/learn/modules/responsible-ai-principles/3-implications-responsible-ai-practical>

#### NEW QUESTION 220

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