

# Microsoft

## Exam Questions AI-900

Microsoft Azure AI Fundamentals (beta)



**NEW QUESTION 1**

HOTSPOT - (Topic 5)

You have an app that identifies birds in images. The app performs the following tasks:

- \* Identifies the location of the birds in the image
- \* Identifies the species of the birds in the image

Which type of computer vision does each task use? To answer, select the appropriate options in the answer area.

NOTE: Each correct selection is worth one point.

Answer Area

Locate the birds:	<div>Object detection</div> <div>Automated captioning</div> <div>Image classification</div> <div>Object detection</div> <div>Optical character recognition (OCR)</div>
Identify the species of the birds:	<div>Image classification</div> <div>Automated captioning</div> <div>Image classification</div> <div>Object detection</div> <div>Optical character recognition (OCR)</div>

- A. Mastered
- B. Not Mastered

**Answer:** A

**Explanation:**

Answer Area

Locate the birds:	<div>Object detection</div> <div>Automated captioning</div> <div>Image classification</div> <div>Object detection</div> <div>Optical character recognition (OCR)</div>
Identify the species of the birds:	<div>Image classification</div> <div>Automated captioning</div> <div>Image classification</div> <div>Object detection</div> <div>Optical character recognition (OCR)</div>

**NEW QUESTION 2**

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

computer vision.

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

computer vision.

forecasting.

computer vision.

knowledge mining.

anomaly detection.

**NEW QUESTION 3**

- (Topic 5)

You have a website that includes customer reviews.

You need to store the reviews in English and present the reviews to users in their respective language by recognizing each user's geographical location.

Which type of natural language processing workload should you use?

- A. translation
- B. language modeling
- C. key phrase extraction
- D. speech recognition

**Answer:** C

**NEW QUESTION 4**

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 5

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 6**

HOTSPOT - (Topic 5)

Select the answer that correctly completes the sentence.

Answer Area

Predicting how many hours of overtime a delivery person will work based on the number of orders received is an example of

classification.

clustering.

regression.

- A. Mastered
- B. Not Mastered

Answer: A

Explanation:

Answer Area

Predicting how many hours of overtime a delivery person will work based on the number of orders received is an example of

classification.

clustering.

regression.

**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
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:

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 checked="" type="radio"/>	<input type="radio"/>

**NEW QUESTION 8**

- (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 9**

- (Topic 5)

Which scenario is an example of a webchat bot?

- A. Determine whether reviews entered on a website for a concert are positive or negative, and then add athumbs up or thumbs down emoji to the reviews.
- B. Translate into English questions entered by customers at a kiosk so that the appropriate person can call the customers back.
- C. Accept questions through email, and then route the email messages to the correct person based on the content of the message.
- D. From a website interface, answer common questions about scheduled events and ticket purchases for a music festival.

Answer: D

NEW QUESTION 10

HOTSPOT - (Topic 5)

Select the answer that correctly completes the sentence.

Answer Area

The 

Form Recognizer

Computer Vision

Conversational Language Understanding

Custom Vision

Form Recognizer

 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 

Form Recognizer

Computer Vision

Conversational Language Understanding

Custom Vision

Form Recognizer

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

NEW QUESTION 10

HOTSPOT - (Topic 5)

Select the answer that correctly completes the sentence.

Answer Area

Creating a text transcript of a voice recording is an example of 

a computer vision workload.

a knowledge mining workload.

a natural language processing (NLP) workload.

an anomaly detection workload.

Answer selections

- A. Mastered
- B. Not Mastered

Answer: A

Explanation:

Answer Area

Creating a text transcript of a voice recording is an example of 

a computer vision workload.

a knowledge mining workload.

a natural language processing (NLP) workload.

an anomaly detection workload.

Answer selections

NEW QUESTION 15

DRAG DROP - (Topic 5)

Match the machine learning models to the appropriate deceptions.

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

Classification

Clustering

Regression

Answer Area

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**

Classification

Clustering

Regression

**Answer Area**

Regression

Classification

Clustering

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.

**NEW QUESTION 19**

- (Topic 5)  
Which AI service should you use to create a bot from a frequently asked questions (FAQ) document?

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

**Answer:** A

**NEW QUESTION 23**

- (Topic 5)  
You need to predict the animal population of an area. Which Azure Machine Learning type should you use?

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

**Answer:** C

**NEW QUESTION 27**

HOTSPOT - (Topic 5)  
Select the answer that correctly completes the sentence.

**Answer Area**

A banking system that predicts whether a loan will be repaid

is an example of the

classification

classification

clustering

regression

type of machine learning.

- A. Mastered
- B. Not Mastered

**Answer:** A

**Explanation:**

**Answer Area**

A banking system that predicts whether a loan will be repaid

is an example of the

classification

classification

clustering

regression

type of machine learning.

**NEW QUESTION 29**

HOTSPOT - (Topic 5)  
Select the answer that correctly completes the sentence

**Answer Area**

Object detection

Image classification

Image description

Object detection

Optical character recognition (OCR)

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

- A. Mastered
- B. Not Mastered

Answer: A

Explanation:

Answer Area

Object detection

Image classification

Image description

Object detection

Optical character recognition (OCR)

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

NEW QUESTION 30

- (Topic 5)

You have an Azure Machine Learning pipeline that contains a Split Data module. The Split Data module outputs to a Train Model module and a Score Model module. What is the function of the Split Data module?

- A. selecting columns that must be included in the model
- B. creating training and validation datasets
- C. diverting records that have missing data
- D. scaling numeric variables so that they are within a consistent numeric range

Answer: A

NEW QUESTION 31

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 QnA Maker to query an Azure SQL database.	<input type="radio"/>	<input type="radio"/>
You should use QnA Maker when you want a knowledge base to provide the same answer to different users who submit similar questions.	<input type="radio"/>	<input type="radio"/>
The QnA Maker service can determine the intent of a user utterance.	<input type="radio"/>	<input type="radio"/>

- A. Mastered
- B. Not Mastered

Answer: A

Explanation:

Statements	Yes	No
You can use QnA Maker to query an Azure SQL database.	<input type="radio"/>	<input checked="" type="radio"/>
You should use QnA Maker when you want a knowledge base to provide the same answer to different users who submit similar questions.	<input checked="" type="radio"/>	<input type="radio"/>
The QnA Maker service can determine the intent of a user utterance.	<input type="radio"/>	<input checked="" type="radio"/>

NEW QUESTION 36

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
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:

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 checked="" type="radio"/>	<input type="radio"/>

NEW QUESTION 40

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 41

HOTSPOT - (Topic 5)

Select the answer that correctly completes the sentence.

Answer Area

Detecting unusual temperature fluctuations for a large machine is an example of

an anomaly detection workload.

a computer vision workload.

a knowledge mining workload.

a natural language processing (NLP) workload.

an anomaly detection workload.

- A. Mastered  
B. Not Mastered

Answer: A

Explanation:



Answer Area



#### NEW QUESTION 44

- (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 47

- (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

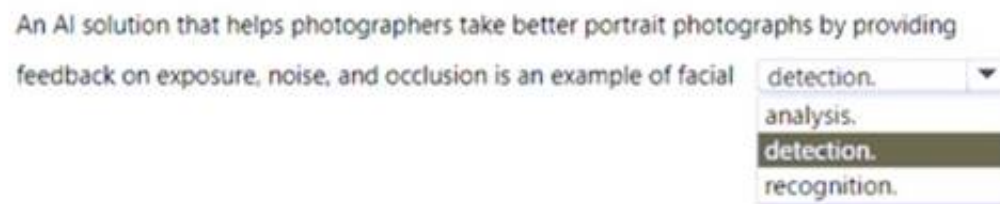
**Answer:** C

#### NEW QUESTION 51

HOTSPOT - (Topic 5)

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

Answer Area

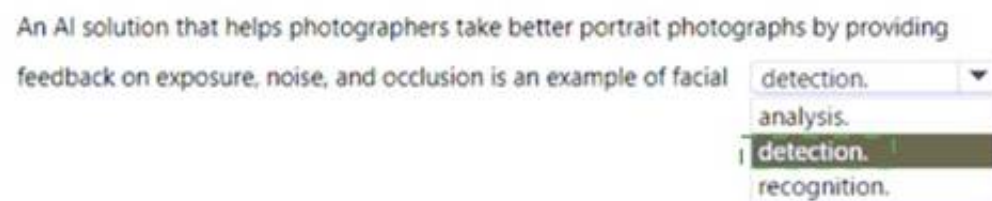


- A. Mastered
- B. Not Mastered

**Answer:** A

**Explanation:**

Answer Area



#### NEW QUESTION 52

- (Topic 5)

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

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

NOTE: Each correct selection is worth one point.

- A. Azure 80l Service
- B. Azure Machine Learning
- C. Translator
- D. Language Service

Answer: AD

**NEW QUESTION 55**

- (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

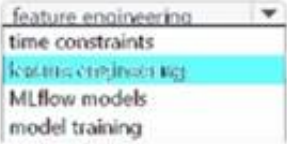
Answer: A

**NEW QUESTION 60**

HOTSPOT - (Topic 5)

Select the answer that correctly completes the sentence.

Answer Area

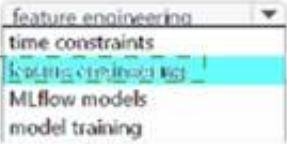
For  , you use a portion of a dataset to prepare a machine learning model and retain the balance of the dataset to verify the results.

- 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 61**

- (Topic 5)

You have a custom question answering solution.

You create a bot that uses the knowledge base to respond to customer requests. You need to identify what the bot can perform without adding additional skills.

What should you identify?

- A. Register customer complaints.
- B. Answer questions from multiple users simultaneously.
- C. Register customer purchases.
- D. Provide customers with return materials authorization (RMA) numbers.

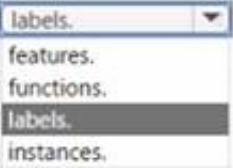
Answer: B

**NEW QUESTION 62**

HOTSPOT - (Topic 5)

Select the answer that correctly completes the sentence.

Answer Area

In a machine learning model, the data that is used as inputs are called 

- A. Mastered
- B. Not Mastered

Answer: A

Explanation:

Answer Area

In a machine learning model, the data that is used as inputs are called

labels.

features.

functions.

labels.

instances.

**NEW QUESTION 65**  
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 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"/>

- A. Mastered
- B. Not Mastered

Answer: A

Explanation:

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"/>

**NEW QUESTION 69**  
DRAG DROP - (Topic 5)  
Match the Azure Cognitive Services service to the appropriate actions.  
To answer, drag the appropriate service from the column on the left to its action on the right. Each service may be used once, more than once, or not at all.  
NOTE: Each correct match is worth one point.

Services

Speech

Language service

Translator Text

Answer Area

Convert a user's speech to text.

Identify a user's intent.

Provide a spoken response to the user.

- A. Mastered
- B. Not Mastered

Answer: A

Explanation:

Services

Speech

Language service

Translator Text

Answer Area

Speech

Convert a user's speech to text.

Language service

Identify a user's intent.

Speech

Provide a spoken response to the user.

NEW QUESTION 73

DRAG DROP - (Topic 5)

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

Fairness

Inclusiveness

Privacy and securit

Reliability and safe

Answer Area

AI systems must consistently operate as intended, even under unexpected conditions.

AI systems must protect and secure personal and businesses information.

- A. Mastered
- B. Not Mastered

Answer: A

Explanation:

Principles

Fairness

Inclusiveness

Privacy and securit

Reliability and safe

Answer Area

Reliability and safe

AI systems must consistently operate as intended, even under unexpected conditions.

Privacy and securit

AI systems must protect and secure personal and businesses information.

NEW QUESTION 77

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 81  
HOTSPOT - (Topic 5)  
correctly completes the sentence.

Answer Area

In a machine learning model, the data that is used as inputs are called

- features.

functions.

labels.

instances.

- A. Mastered  
B. Not Mastered

Answer: A

Explanation:

Answer Area

In a machine learning model, the data that is used as inputs are called

- features.

functions.

labels.

instances.

NEW QUESTION 83  
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 checked="" type="radio"/>	<input type="radio"/>
You can use the Translator service to transcribe audible speech into text.	<input checked="" type="radio"/>	<input type="radio"/>

#### NEW QUESTION 85

- (Topic 5)

Which two languages can you use to write custom code for Azure Machine Learning designer? Each correct answer presents a complete solution.  
NOTE; Each correct selection is worth one point.

- A. C#
- B. Scala
- C. Python
- D. R

**Answer:** CD

#### NEW QUESTION 87

HOTSPOT - (Topic 5)

brectly completes the sentence.

**Answer Area**

A historian can use 

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

 to digitize newspaper articles.

- A. Mastered
- B. Not Mastered

**Answer:** A

**Explanation:**

**Answer Area**

A historian can use 

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

 to digitize newspaper articles.

#### NEW QUESTION 92

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 97

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 98

- (Topic 5)

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

- A product troubleshooting guide m a Microsoft Word document
- A frequently asked questions (FAQ) list on a webpage Which service should you use to process the documents?

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

**Answer:** D

### NEW QUESTION 99

- (Topic 5)

You have a bot that identifies the brand names of products in images of supermarket shelves.

Which service does the bot use?

- A. AI enrichment for Azure Search capabilities
- B. Computer Vision Image Analysis capabilities
- C. Custom Vision Image Classification capabilities
- D. Language understanding capabilities

**Answer:** B

### NEW QUESTION 104

- (Topic 5)

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

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

**Answer:** A

**Explanation:**

Reference:

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

### NEW QUESTION 105

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
The Custom Vision service can be used to detect objects in an image.		
The Custom Vision service requires that you provide your own data to train the model.		
The Custom Vision service can be used to analyze video files.		

- A. Mastered
- B. Not Mastered

Answer: A

Explanation:

Statements	Yes	No
The Custom Vision service can be used to detect objects in an image.	<input checked="" type="checkbox"/>	
The Custom Vision service requires that you provide your own data to train the model.	<input checked="" type="checkbox"/>	
The Custom Vision service can be used to analyze video files.		<input checked="" type="checkbox"/>

NEW QUESTION 110

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 113

HOTSPOT - (Topic 5)  
Select the answer that correctly completes the sentence.

Answer Area
Predicting how many vehicles will travel across a bridge on a given day is an example of <div>classification, clustering, regression.</div>

- A. Mastered
- B. Not Mastered

Answer: A

Explanation:



Answer Area

Predicting how many vehicles will travel across a bridge on a given day is an example of

classification

clustering

regression

1

NEW QUESTION 117

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 120

- (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 121

FILL IN THE BLANK - (Topic 5)

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. Mastered
- B. Not Mastered

Answer: A

Explanation:

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

#### NEW QUESTION 122

HOTSPOT - (Topic 5)

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

Answer Area

Data values that used to make a prediction are called

features

dependant variables.

features.

identifiers.

labels.

- A. Mastered
- B. Not Mastered

**Answer:** A

**Explanation:**

Answer Area

Data values that used to make a prediction are called

features

dependant variables.

features.

identifiers.

labels.

#### NEW QUESTION 125

- (Topic 4)

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:** D

#### NEW QUESTION 127

- (Topic 5)

You need to provide content for a business chatbot that will help answer simple user queries.

What are three ways to create question and answer text by using QnA Maker? Each correct answer presents a complete solution.

NOTE: Each correct selection is worth one point.

- A. Generate the questions and answers from an existing webpage.
- B. Use automated machine learning to train a model based on a file that contains the questions.
- C. Manually enter the questions and answers.
- D. Connect the bot to the Cortana channel and ask questions by using Cortana.
- E. Import chit-chat content from a predefined data source.

**Answer:** ACE

**Explanation:**

Automatic extraction

Extract question-answer pairs from semi-structured content, including FAQ pages, support websites, excel files, SharePoint documents, product manuals and policies.

Reference:

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

#### NEW QUESTION 129

- (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 131

- (Topic 4)

You are developing a solution that uses the Text Analytics service.

You need to identify the main talking points in a collection of documents. Which type of natural language processing should you use?

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

**Answer:** B

**Explanation:**

Broad entity extraction: Identify important concepts in text, including key  
Key phrase extraction/ Broad entity extraction: Identify important concepts in text, including key phrases and named entities such as people, places, and organizations.  
Reference:  
<https://docs.microsoft.com/en-us/azure/architecture/data-guide/technology-choices/natural-language-processing>

**NEW QUESTION 134**

- (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 137**

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.

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:**

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.

**NEW QUESTION 140**

- (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 144**

- (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 148**

- (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 152**

- (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 155**

- (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 156**

- (Topic 4)  
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. Language Service
- B. Azure Bot Service
- C. Form Recognizer
- D. Anomaly Detector

**Answer:** AD

**Explanation:**

Reference:  
<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>

**NEW QUESTION 160**

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 163**

- (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 167**

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 169

- (Topic 3)

What are two tasks that can be performed by using the Computer Vision service? Each correct answer presents a complete solution.

NOTE: Each correct selection is worth one point.

- A. Train a custom image classification model.
- B. Detect faces in an image.
- C. Recognize handwritten text.
- D. Translate the text in an image between languages.

**Answer:** BC

#### Explanation:

B: Azure's Computer Vision service provides developers with 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.

C: Computer Vision includes Optical Character Recognition (OCR) capabilities. You can use the new Read API to extract printed and handwritten text from images and documents.

Reference:

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

Detect faces in an image - Face API

Microsoft Azure provides multiple cognitive services that you can use to detect and analyze faces, including:

Computer Vision, which offers face detection and some basic face analysis, such as determining age.

Video Indexer, which you can use to detect and identify faces in a video.

Face, which offers pre-built algorithms that can detect, recognize, and analyze faces. Recognize hand written text - Read API

The Read API is a better option for scanned documents that have a lot of text. The Read API also has the ability to automatically determine the proper recognition model

#### NEW QUESTION 172

- (Topic 3)

What is a use case for classification?

- A. predicting how many cups of coffee a person will drink based on how many hours the person slept the previous night.
- B. analyzing the contents of images and grouping images that have similar colors
- C. predicting whether someone uses a bicycle to travel to work based on the distance from home to work
- D. predicting how many minutes it will take someone to run a race based on past race times

**Answer:** D

#### NEW QUESTION 175

- (Topic 3)

In which two scenarios can you use the Form Recognizer service? Each correct answer presents a complete solution.

NOTE: Each correct selection is worth one point.

- A. Extract the invoice number from an invoice.
- B. Translate a form from French to English.
- C. Find image of product in a catalog.
- D. Identity the retailer from a receipt.

**Answer:** AD

#### Explanation:

Reference:

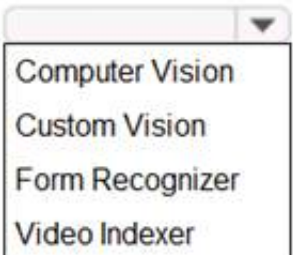
<https://azure.microsoft.com/en-gb/services/cognitive-services/form-recognizer/#features>

#### NEW QUESTION 177

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.

- 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 178**

- (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 183**

DRAG DROP - (Topic 3)  
Match the types of machine learning to the appropriate scenarios.  
To answer, drag the appropriate machine learning type from the column on the left to its scenario on the right. Each machine learning type may be used once, more than once, or not at all.  
NOTE: Each correct selection is worth one point.

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

- A. Mastered
- B. Not Mastered

**Answer:** A

**Explanation:**  
Box 1: Image classification  
Image classification is a supervised learning problem: define a set of target classes (objects to identify in images), and train a model to recognize them using labeled example photos.  
Box 2: Object detection  
Object detection is a computer vision problem. While closely related to image classification, object detection performs image classification at a more granular scale. Object detection both locates and categorizes entities within images.  
Box 3: Semantic Segmentation  
Semantic segmentation achieves fine-grained inference by making dense predictions inferring labels for every pixel, so that each pixel is labeled with the class of its enclosing object ore region.

**NEW QUESTION 188**

HOTSPOT - (Topic 2)  
To complete the sentence, select the appropriate option in the answer area.

**Answer Area**

From Azure Machine Learning designer, to deploy a real-time inference pipeline as a service for others to consume, you must deploy the model to

a local web service.  
Azure Container Instances.  
Azure Kubernetes Service (AKS).  
Azure Machine Learning compute.



- A. Mastered
- B. Not Mastered

Answer: A

Explanation:

To perform real-time inferencing, you must deploy a pipeline as a real-time endpoint. Real-time endpoints must be deployed to an Azure Kubernetes Service cluster.

NEW QUESTION 192

HOTSPOT - (Topic 2)

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

▼

is the calculated probability of a correct image classification.

Accuracy
Confidence
Root Mean Square Error
Sentiment

- A. Mastered
- B. Not Mastered

Answer: A

Explanation:

▼

is the calculated probability of a correct image classification.

Accuracy
Confidence
Root Mean Square Error
Sentiment

NEW QUESTION 193

HOTSPOT - (Topic 2)

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

Answer Area

The ability to extract subtotals and totals from a receipt is a capability of the 

▼

 service.

Custom Vision

Form Recognizer

Ink Recognizer

Text Analytics

- A. Mastered
- B. Not Mastered

Answer: A

Explanation:

Accelerate your business processes by automating information extraction. Form Recognizer applies advanced machine learning to accurately extract text, key/value pairs, and tables from documents. With just a few samples, Form Recognizer tailors its understanding to your documents, both on-premises and in the cloud. Turn forms into usable data at a fraction of the time and cost, so you can focus more time acting on the information rather than compiling it.

NEW QUESTION 197

- (Topic 2)

What are two metrics that you can use to evaluate a regression model? Each correct answer presents a complete solution.

NOTE: Each correct selection is worth one point.

- A. coefficient of determination (R2)
- B. F1 score
- C. root mean squared error (RMSE)
- D. area under curve (AUC)
- E. balanced accuracy

Answer: AC

Explanation:

A: R-squared (R2), or Coefficient of determination represents the predictive power of the model as a value between -inf and 1.00. 1.00 means there is a perfect fit, and the fit can be arbitrarily poor so the scores can be negative.

C: RMS-loss or Root Mean Squared Error (RMSE) (also called Root Mean Square Deviation, RMSD), measures the difference between values predicted by a model and the values observed from the environment that is being modeled.  
Reference:  
<https://docs.microsoft.com/en-us/dotnet/machine-learning/resources/metrics>

**NEW QUESTION 201**

HOTSPOT - (Topic 2)

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

**Answer Area**

Azure Machine Learning designer lets you create machine learning models by

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:

**Answer Area**

Azure Machine Learning designer lets you create machine learning models by

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 206**

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 210  
HOTSPOT - (Topic 2)  
You have the following dataset.

Household Income	Postal Code	House Price Category
20,000	55555	Low
23,000	20541	Middle
80,000	87960	High

You plan to use the dataset to train a model that will predict the house price categories of houses.  
What are Household Income and House Price Category? To answer, select the appropriate option in the answer area.  
NOTE: Each correct selection is worth one point.

Answer Area

Household Income: 

A feature

A label

House Price Category: 

A feature

A label

- A. Mastered
- B. Not Mastered

Answer: A

Explanation:  
Box 1: A feature Box 2: A label

NEW QUESTION 215  
HOTSPOT - (Topic 2)  
To complete the sentence, select the appropriate option in the answer area.

Classification

Clustering

Regression

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

- 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 217  
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 220

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.

Statements	Yes	No
A validation set includes the set of input examples that will be used to train a mode.	<input type="radio"/>	<input type="radio"/>
A validation set can be used to determine how well a model predicts labels.	<input type="radio"/>	<input type="radio"/>
A validation set can be used to verify that all the training data was used to train the model.	<input type="radio"/>	<input type="radio"/>

- A. Mastered
- B. Not Mastered

Answer: A

Explanation:

Box 1: No

The validation dataset is different from the test dataset that is held back from the training of the model.

Box 2: Yes

A validation dataset is a sample of data that is used to give an estimate of model skill while tuning model's hyperparameters.

Box 3: No

The Test Dataset, not the validation set, used for this. The Test Dataset is a sample of data used to provide an unbiased evaluation of a final model fit on the training dataset.

NEW QUESTION 224

- (Topic 2)

Which two components can you drag onto a canvas in Azure Machine Learning designer? Each correct answer presents a complete solution.

NOTE: Each correct selection is worth one point.

- A. dataset
- B. co mpute
- C. pipeline
- D. module

Answer: AD

Explanation:

You can drag-and-drop datasets and modules onto the canvas. Reference:  
<https://docs.microsoft.com/en-us/azure/machine-learning/concept-designer>

NEW QUESTION 226

- (Topic 2)

You use Azure Machine Learning designer to publish an inference pipeline.

Which two parameters should you use to consume the pipeline? Each correct answer presents part of the solution.

NOTE: Each correct selection is worth one point.

- A. the model name



- B. the training endpoint
- C. the authentication key
- D. the REST endpoint

**Answer:** CD

**Explanation:**

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

**NEW QUESTION 230**

- (Topic 2)

Which metric can you use to evaluate a classification model?

- A. true positive rate
- B. mean absolute error (MAE)
- C. coefficient of determination (R2)
- D. root mean squared error (RMSE)

**Answer:** A

**Explanation:**

What does a good model look like?

An ROC curve that approaches the top left corner with 100% true positive rate and 0% false positive rate will be the best model. A random model would display as a flat line from the bottom left to the top right corner. Worse than random would dip below the y=x line.

Reference:

[https://docs.microsoft.com/en-us/azure/machine-learning/how-to-understand-automated- ml#classification](https://docs.microsoft.com/en-us/azure/machine-learning/how-to-understand-automated-ml#classification)

**NEW QUESTION 233**

- (Topic 2)

Which service should you use to extract text, key/value pairs, and table data automatically from scanned documents?

- A. Form Recognizer
- B. Text Analytics
- C. Ink Recognizer
- D. Custom Vision

**Answer:** A

**Explanation:**

Accelerate your business processes by automating information extraction. Form Recognizer applies advanced machine learning to accurately extract text, key/value pairs, and tables from documents. With just a few samples, Form Recognizer tailors its understanding to your documents, both on-premises and in the cloud. Turn forms into usable data at a fraction of the time and cost, so you can focus more time acting on the information rather than compiling it.

Reference:

<https://azure.microsoft.com/en-us/services/cognitive-services/form-recognizer/>

**NEW QUESTION 236**

HOTSPOT - (Topic 2)

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
Organizing documents into groups based on similarities of the text contained in the documents is an example of clustering.	<input type="radio"/>	<input type="radio"/>
Grouping similar patients based on symptoms and diagnostic test results is an example of clustering.	<input type="radio"/>	<input type="radio"/>
Predicting whether a person will develop mild, moderate, or severe allergy symptoms based on pollen count is an example of clustering.	<input type="radio"/>	<input type="radio"/>

- A. Mastered
- B. Not Mastered

**Answer:** A

**Explanation:**

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

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

**NEW QUESTION 238**

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
Labelling is the process of tagging training data with known values.	<input type="radio"/>	<input type="radio"/>
You should evaluate a model by using the same data used to train the model.	<input type="radio"/>	<input type="radio"/>
Accuracy is always the primary metric used to measure a model's performance.	<input type="radio"/>	<input type="radio"/>

- A. Mastered
- B. Not Mastered

Answer: A

**Explanation:**  
Box 1: Yes  
In machine learning, if you have labeled data, that means your data is marked up, or annotated, to show the target, which is the answer you want your machine learning model to predict.  
In general, data labeling can refer to tasks that include data tagging, annotation, classification, moderation, transcription, or processing.  
Box 2: No  
Box 3: No  
Accuracy is simply the proportion of correctly classified instances. It is usually the first metric you look at when evaluating a classifier. However, when the test data is unbalanced (where most of the instances belong to one of the classes), or you are more interested in the performance on either one of the classes, accuracy doesn't really capture the effectiveness of a classifier.

NEW QUESTION 243

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 

an inclusiveness

a privacy and security

a reliability and safety

a transparency

 principle for responsible AI.

- A. Mastered
- B. Not Mastered

Answer: A

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

an inclusiveness

a privacy and security

a reliability and safety

a transparency

 principle for responsible AI.

NEW QUESTION 247

- (Topic 2)  
Which type of machine learning should you use to identify groups of people who have similar purchasing habits?

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

Answer: C

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

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

### NEW QUESTION 252

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 is the process of automating the time-consuming, iterative tasks of machine learning model development.	<input type="radio"/>	<input type="radio"/>
Automated machine learning can automatically infer the training data from the use case provided.	<input type="radio"/>	<input type="radio"/>
Automated machine learning works by running multiple training iterations that are scored and ranked by the metrics you specify.	<input type="radio"/>	<input type="radio"/>
Automated machine learning enables you to specify a dataset and will automatically understand which label to predict.	<input type="radio"/>	<input type="radio"/>

A. Mastered

B. Not Mastered

**Answer:** A

#### Explanation:

Box 1: Yes

Automated machine learning, also referred to as automated ML or AutoML, is the process of automating the time consuming, iterative tasks of machine learning model development. It allows data scientists, analysts, and developers to build ML models with high scale, efficiency, and productivity all while sustaining model quality.

Box 2: No

Box 3: Yes

During training, Azure Machine Learning creates a number of pipelines in parallel that try different algorithms and parameters for you. The service iterates through ML algorithms paired with feature selections, where each iteration produces a model with a training score. The higher the score, the better the model is considered to "fit" your data. It will stop once it hits the exit criteria defined in the experiment.

Box 4: No

Apply automated ML when you want Azure Machine Learning to train and tune a model for you using the target metric you specify.

The label is the column you want to predict.

### NEW QUESTION 256

- (Topic 2)

When training a model, why should you randomly split the rows into separate subsets?

A. to train the model twice to attain better accuracy

B. to train multiple models simultaneously to attain better performance

C. to test the model by using data that was not used to train the model

**Answer:** C

#### Explanation:

The goal is to produce a trained (fitted) model that generalizes well to new, unknown data. The fitted model is evaluated using "new" examples from the held-out datasets (validation and test datasets) to estimate the model's accuracy in classifying new data.

[https://en.wikipedia.org/wiki/Training,\\_validation,\\_and\\_test\\_sets#:~:text=Training%20dataset,-A%20training%20dataset&text=The%20goal%20is%20to%20produce,accuracy%20in%20classifying%20new%20data.](https://en.wikipedia.org/wiki/Training,_validation,_and_test_sets#:~:text=Training%20dataset,-A%20training%20dataset&text=The%20goal%20is%20to%20produce,accuracy%20in%20classifying%20new%20data.)

### NEW QUESTION 257

HOTSPOT - (Topic 2)

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

### Answer Area

A banking system that predicts whether a loan will be repaid is an example of the  type of machine learning.

- classification

regression

clustering



- A. Mastered
- B. Not Mastered

Answer: A

Explanation:

Answer Area

A banking system that predicts whether a loan will be repaid is an example of the 

classification

regression

clustering

 type of machine learning.

NEW QUESTION 262

DRAG DROP - (Topic 1)

You plan to deploy an Azure Machine Learning model as a service that will be used by client applications. Which three processes should you perform in sequence before you deploy the model? To answer, move the appropriate processes from the list of processes to the answer area and arrange them in the correct order.

Processes

data encryption

model retraining

model training

data preparation

model evaluation

>

<

Answer Area

- A. Mastered
- B. Not Mastered

Answer: A

Explanation:

Processes

data encryption

model retraining

model training

data preparation

model evaluation

>

<

Answer Area

data preparation

model training

model evaluation

NEW QUESTION 267



- (Topic 1)  
For a machine learning progress, how should you split data for training and evaluation?

- A. Use features for training and labels for evaluation.
- B. Randomly split the data into rows for training and rows for evaluation.
- C. Use labels for training and features for evaluation.
- D. Randomly split the data into columns for training and columns for evaluation.

**Answer:** B

**Explanation:**  
<https://docs.microsoft.com/en-us/azure/machine-learning/algorithm-module-reference/split-data>

**NEW QUESTION 271**

- (Topic 1)  
You run a charity event that involves posting photos of people wearing sunglasses on Twitter. You need to ensure that you only retweet photos that meet the following requirements:  
Include one or more faces.  
Contain at least one person wearing sunglasses. What should you use to analyze the images?

- A. the Verify operation in the Face service
- B. the Detect operation in the Face service
- C. the Describe Image operation in the Computer Vision service
- D. the Analyze Image operation in the Computer Vision service

**Answer:** B

**Explanation:**  
Reference:  
<https://docs.microsoft.com/en-us/azure/cognitive-services/face/overview>

**NEW QUESTION 273**

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 274**

HOTSPOT - (Topic 1)  
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 recognizer (OCR).  
semantic segmentation.

- 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 recognizer (OCR).  
semantic segmentation.

NEW QUESTION 278  
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.

Answer Area

Statements	Yes	No
Forecasting housing prices based on historical data is an example of anomaly detection.	<input type="radio"/>	<input type="radio"/>
Identifying suspicious sign-ins by looking for deviations from usual patterns is an example of anomaly detection.	<input type="radio"/>	<input type="radio"/>
Predicting whether a patient will develop diabetes based on the patient's medical history is an example of anomaly detection.	<input type="radio"/>	<input type="radio"/>

- A. Mastered
- B. Not Mastered

Answer: A

Explanation:

- Box 1: No
- Box 2: Yes
- Box 3: Yes

Anomaly detection encompasses many important tasks in machine learning:  
Identifying transactions that are potentially fraudulent.  
Learning patterns that indicate that a network intrusion has occurred. Finding abnormal clusters of patients.  
Checking values entered into a system.

NEW QUESTION 282

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.

Workload Types	Answer Area
Anomaly detection	Workload Type Identify handwritten letters.
Computer vision	Workload Type Predict the sentiment of a social media post.
Machine Learning (Regression)	Workload Type Identify a fraudulent credit card payment.
Natural language processing	Workload Type Predict next month's toy sales.

- A. Mastered
- B. Not Mastered

Answer: A

Explanation:

Workload Types	Answer Area
Anomaly detection	Computer vision Identify handwritten letters.
Computer vision	Natural language processing Predict the sentiment of a social media post.
Machine Learning (Regression)	Anomaly detection Identify a fraudulent credit card payment.
Natural language processing	Machine Learning (Regression) Predict next month's toy sales.

NEW QUESTION 286

DRAG DROP - (Topic 1)

Match the principles of responsible AI to appropriate requirements.

To answer, drag the appropriate principles from the column on the left to its requirement on the right. Each principle 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.

Principles	Answer Area
Fairness	The system must not discriminate based on gender, race
Privacy and security	Personal data must be visible only to approve
Reliability and safety	Automated decision-making processes must be recorded so that approved users can identify why a decision was made
Transparency	

- A. Mastered
- B. Not Mastered

Answer: A

Explanation:

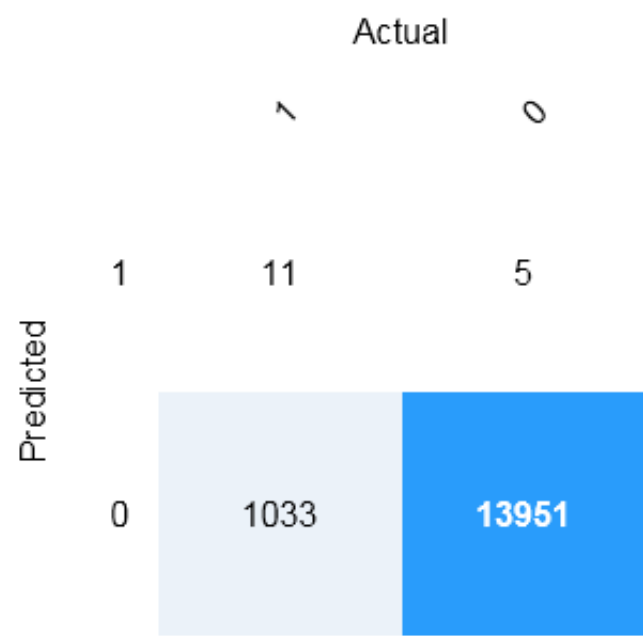
Principles	Answer Area
Fairness	Fairness The system must not discriminate based on gender, race
Privacy and security	Privacy and security Personal data must be visible only to approve
Reliability and safety	Transparency Automated decision-making processes must be recorded so that approved users can identify why a decision was made
Transparency	

NEW QUESTION 289

HOTSPOT - (Topic 1)



You are developing a model to predict events by using classification.  
You have a confusion matrix for the model scored on test data as shown in the following exhibit.



Use the drop-down menus to select the answer choice that completes each statement based on the information presented in the graphic.  
NOTE: Each correct selection is worth one point.

Answer Area

There are [answer choice] correctly predicted positives.

5  
11  
1,033  
13,951

There are [answer choice] false negatives.

5  
11  
1,033  
13,951

- A. Mastered
- B. Not Mastered

Answer: A

Explanation:  
Box 1: 11

	Predicted	
	Positive	Negative
Actual True	TP	FN
Actual False	FP	TN

TP = True Positive.  
The class labels in the training set can take on only two possible values, which we usually refer to as positive or negative. The positive and negative instances that a classifier predicts correctly are called true positives (TP) and true negatives (TN), respectively. Similarly, the incorrectly classified instances are called false positives (FP) and false negatives (FN).  
Box 2: 1,033  
FN = False Negative

NEW QUESTION 293  
DRAG DROP - (Topic 1)  
Match the Microsoft guiding principles for 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 selection is worth one point.



Principles	Answer Area
Accountability	Principle Ensure that AI systems operate as they were originally designed, respond to unanticipated conditions, and resist harmful manipulation.
Fairness	
Inclusiveness	Principle Implementing processes to ensure that decisions made by AI systems can be overridden by humans.
Privacy and security	
Reliability and safety	Principle Provide consumers with information and controls over the collection, use, and storage of their data.

- A. Mastered  
B. Not Mastered

**Answer:** A

**Explanation:**

Box 1: Reliability and safety

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.

Box 2: accountability

Box 3: Privacy and security

As AI becomes more prevalent, protecting privacy and securing important personal and business information is becoming more critical and complex. With AI, privacy and data security issues require especially close attention because access to data is essential for AI systems to make accurate and informed predictions and decisions about people. AI systems must comply with privacy laws that require transparency about the collection, use, and storage of data and mandate that consumers have appropriate controls to choose how their data is used

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

**NEW QUESTION 297**

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 302**

- (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 307**

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