Microsoft

Exam Questions AI-900

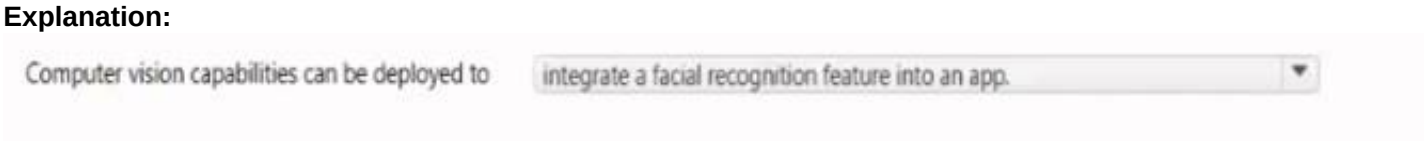
Microsoft Azure AI Fundamentals (beta)

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

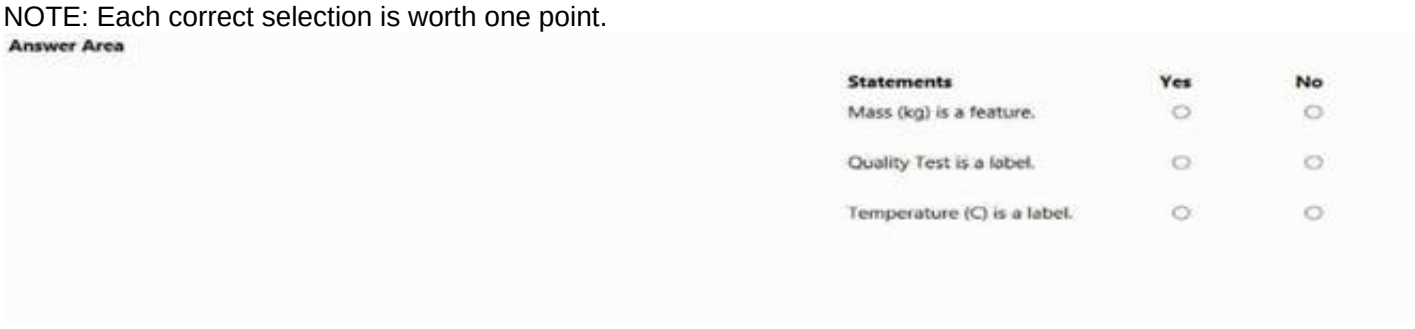
Explanation:



NEW QUESTION 2
HOTSPOT - (Topic 5)
You have an Azure Machine Learning model that predicts product quality. The model has a training dataset that contains 50,000 records. A sample of the data is shown in the following table.

Date	Time	Mass (kg)	Temperature (C)	Quality Test
26/02/2021	15:31:07	2.108	62.5	Pass
26/02/2021	15:31:39	2.099	62.4	Pass
26/02/2021	02:32:21	2.098	66.4	Fail

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

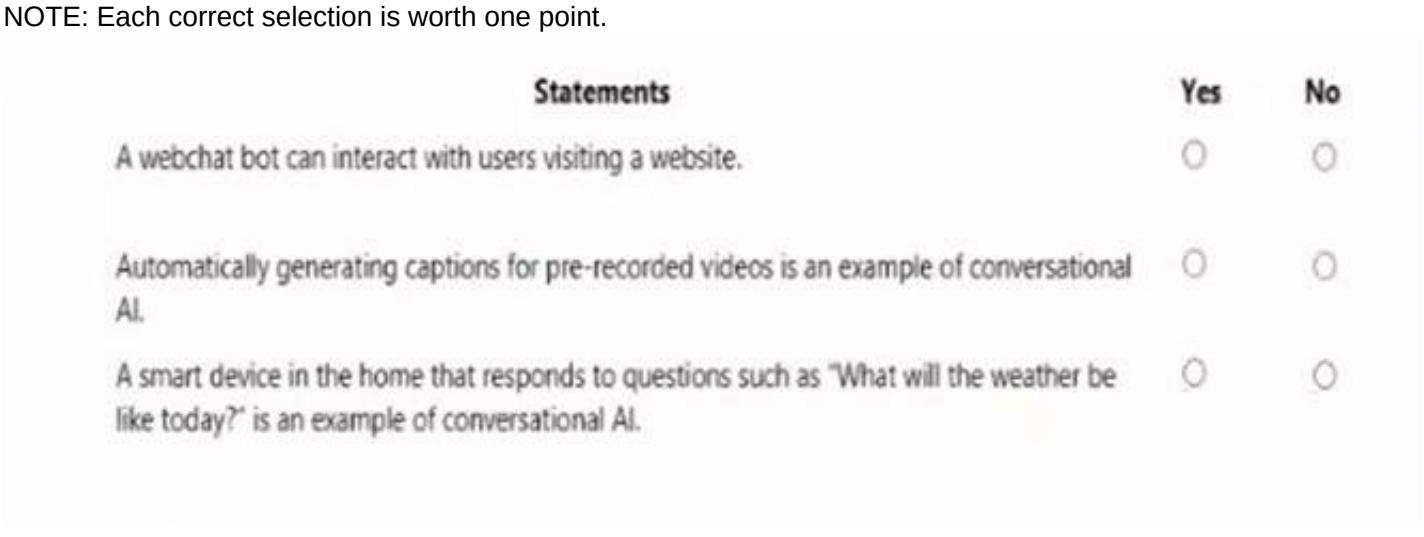


A. Mastered
B. Not Mastered

Answer: A

Explanation:

NEW QUESTION 3
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.



A. Mastered
B. Not Mastered

Answer: A

Explanation:

Statements	Yes	No
A webchat bot can interact with users visiting a website.	○	○
Automatically generating captions for pre-recorded videos is an example of conversational AI.	○	○
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.	○	○

NEW QUESTION 4
- (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 5
- (Topic 5)
You need to create a customer support solution to help customers access information. The solution must support email, phone, and live chat channels. Which type of Al solution should you use?

A. natural language processing (NLP)
B. computer vision
C. machine learning
D. chatbot

Answer: D

NEW QUESTION 6
HOTSPOT - (Topic 5)
Select the answer that correctly completes the sentence.

A. Mastered
B. Not Mastered

Answer: A

Explanation:

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.	○	○
A triage bot that prioritizes insurance claims based on injuries is an example of the Microsoft reliability and safety principle for responsible AI.	○	○
An AI solution that is offered at different prices for different sales territories is an example of the Microsoft inclusiveness principle for responsible AI.	○	○

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.	○	○
A triage bot that prioritizes insurance claims based on injuries is an example of the Microsoft reliability and safety principle for responsible AI.	○	○
An AI solution that is offered at different prices for different sales territories is an example of the Microsoft inclusiveness principle for responsible AI.	○	○

NEW QUESTION 8
HOTSPOT - (Topic 5)
Select the answer that correctly completes the sentence.

Answer Area

When evaluating the performance of a model, the [confusion matrix] displays the predicted and actual positives and negatives by using a grid of 0 and 1 values.

AUC metric
confusion matrix
ROC curve
threshold

A. Mastered
B. Not Mastered

Answer: A

Explanation:

Answer Area

When evaluating the performance of a model, the [confusion matrix] displays the predicted and actual positives and negatives by using a grid of 0 and 1 values.

AUC metric
confusion matrix
ROC curve
threshold

NEW QUESTION 9
- (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 10
- (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 10
- (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 11
- (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

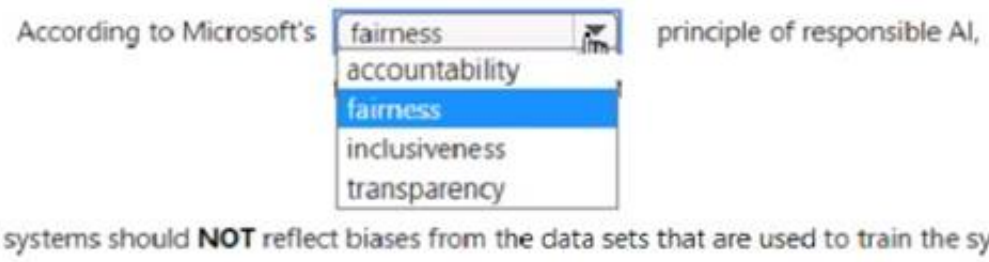
NEW QUESTION 15
- (Topic 5)
During the process of Machine Learning, when should you review evaluation metrics?

A. After you clean the data.
B. Before you train a model.
C. Before you choose the type of model.
D. After you test a model on the validation data.

Answer: D

NEW QUESTION 19
HOTSPOT - (Topic 5)
Select the answer that correctly completes the sentence.

Answer Area

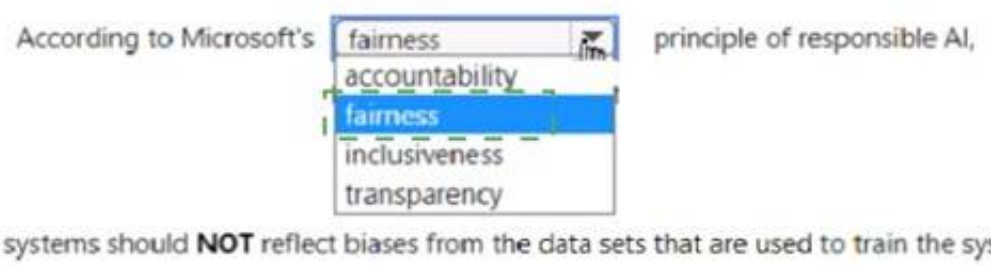


A. Mastered
B. Not Mastered

Answer: A

Explanation:

Answer Area



NEW QUESTION 24

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] type of machine learning.
- classification
- clustering
- regression

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] type of machine learning.
- classification
- clustering
- regression

NEW QUESTION 29
- (Topic 5)
Your company manufactures widgets.
You have 1.000 digital photos of the widgets.
You need to identify the location of the widgets within the photos. What should you use?

A. Computer Vision Spatial Analysis
B. Custom Vision object detection
C. Custom Vision classification
D. Computer Vision Image Analysis

Answer: B

NEW QUESTION 34
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`	○	○
The following service call will accept English text as an input and output Italian and French text. `/translate?from=en&to=fr&to=it`	○	○
The Translator service can be used to translate documents from English to French.	○	○

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

NEW QUESTION 37
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.	○	○
A triage bot that prioritizes insurance claims based on injuries is an example of the Microsoft reliability and safety principle for responsible AI.	○	○
An AI solution that is offered at different prices for different sales territories is an example of the Microsoft inclusiveness principle for responsible AI.	○	○

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.	○	○
A triage bot that prioritizes insurance claims based on injuries is an example of the Microsoft reliability and safety principle for responsible AI.	○	○
An AI solution that is offered at different prices for different sales territories is an example of the Microsoft inclusiveness principle for responsible AI.	○	○

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 44
- (Topic 5)
You are building a chatbot that will use natural language processing (NLP) to perform the following actions based on the text input of a user:
• Accept customer orders.
• Retrieve support documents.
• Retrieve order status updates. Which type of NLP should you use?

A. sentiment analysis
B. translation
C. language modeling
D. named entity recognition

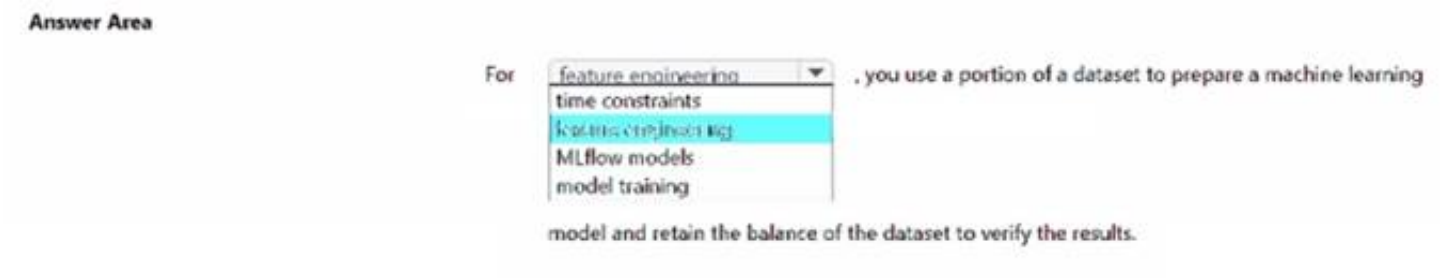
Answer: D

NEW QUESTION 47
- (Topic 5)
You need to implement a pre-built solution that will identify well-known brands in digital photographs. Which Azure AI sen/tee should you use?

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

Answer: C

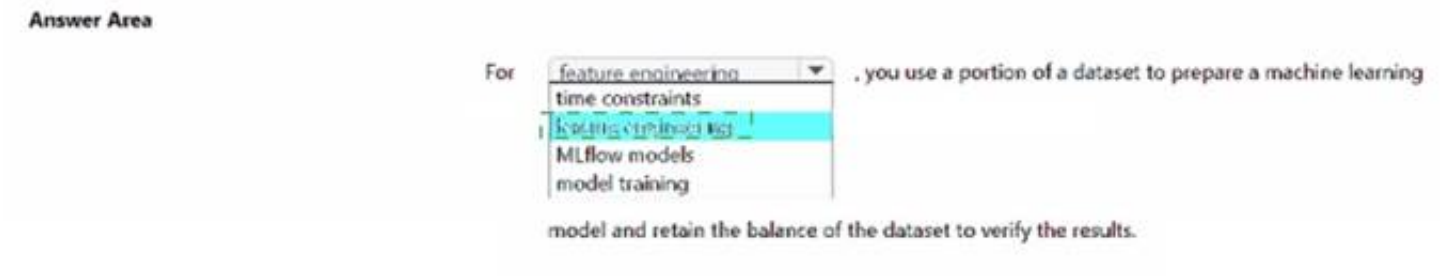
NEW QUESTION 52
HOTSPOT - (Topic 5)
Select the answer that correctly completes the sentence.



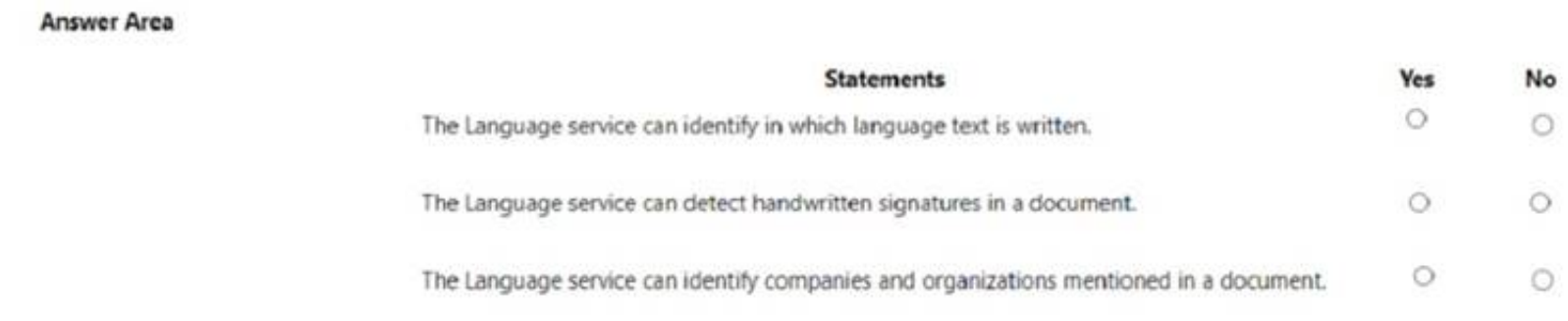
A. Mastered
B. Not Mastered

Answer: A

Explanation:



NEW QUESTION 56
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.



A. Mastered
B. Not Mastered

Answer: A

Explanation:

NEW QUESTION 61
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.	○	○
You can communicate with a bot by using Microsoft Teams.	○	○
You can communicate with a bot by using a webchat interface.	○	○

A. Mastered
B. Not Mastered

Answer: A

Explanation:

Statements	Yes	No
You can communicate with a bot by using Cortana.	○	○
You can communicate with a bot by using Microsoft Teams.	○	○
You can communicate with a bot by using a webchat interface.	○	○

NEW QUESTION 66
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.	○	○
The Azure Bot Service provides services that can be used to host conversational bots.	○	○
Bots built by using the Azure Bot Service can communicate with Microsoft Teams users.	○	○

A. Mastered
B. Not Mastered

Answer: A

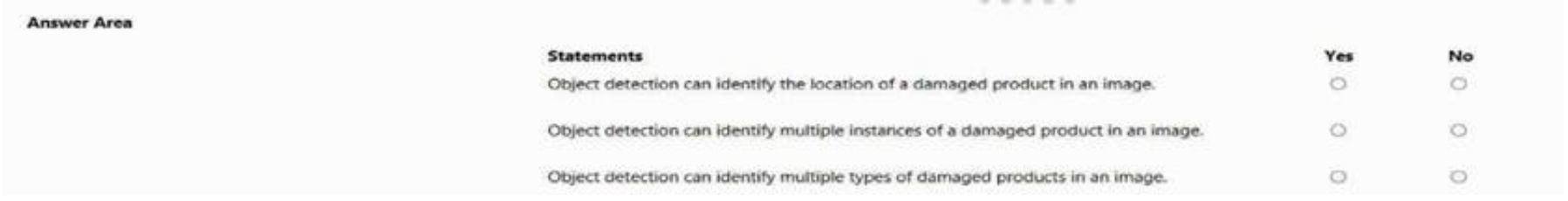
Explanation:

Answer Area

Statements	Yes	No
Chatbots can only be built by using custom code.	○	○
The Azure Bot Service provides services that can be used to host conversational bots.	○	○
Bots built by using the Azure Bot Service can communicate with Microsoft Teams users.	○	○

NEW QUESTION 71

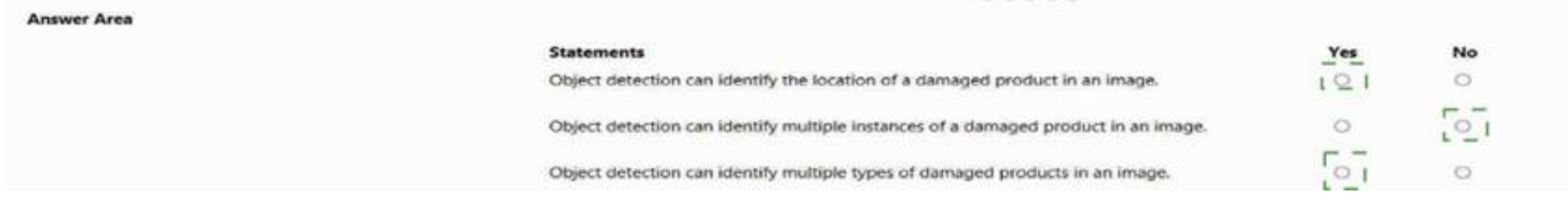
HOTSPOT - (Topic 5)
For each of the following statements, select Yes If the statement is true. Otherwise, select No.
NOTE: Each correct selection is worth one point.



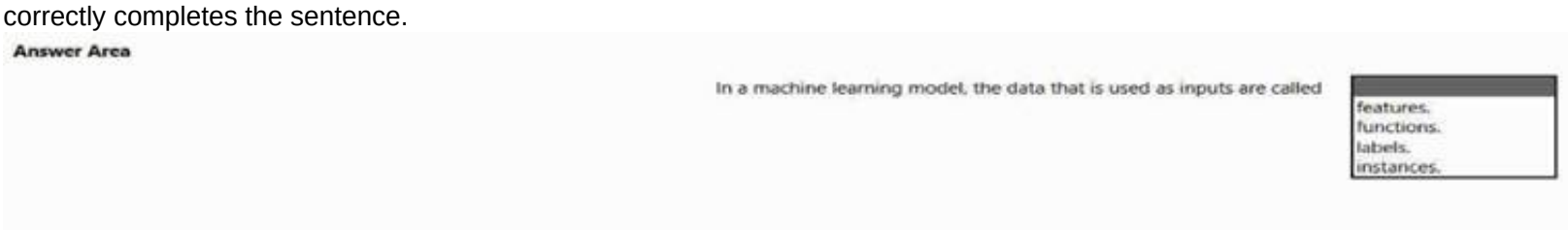
A. Mastered
B. Not Mastered

Answer: A

Explanation:



NEW QUESTION 72
HOTSPOT - (Topic 5)
correctly completes the sentence.

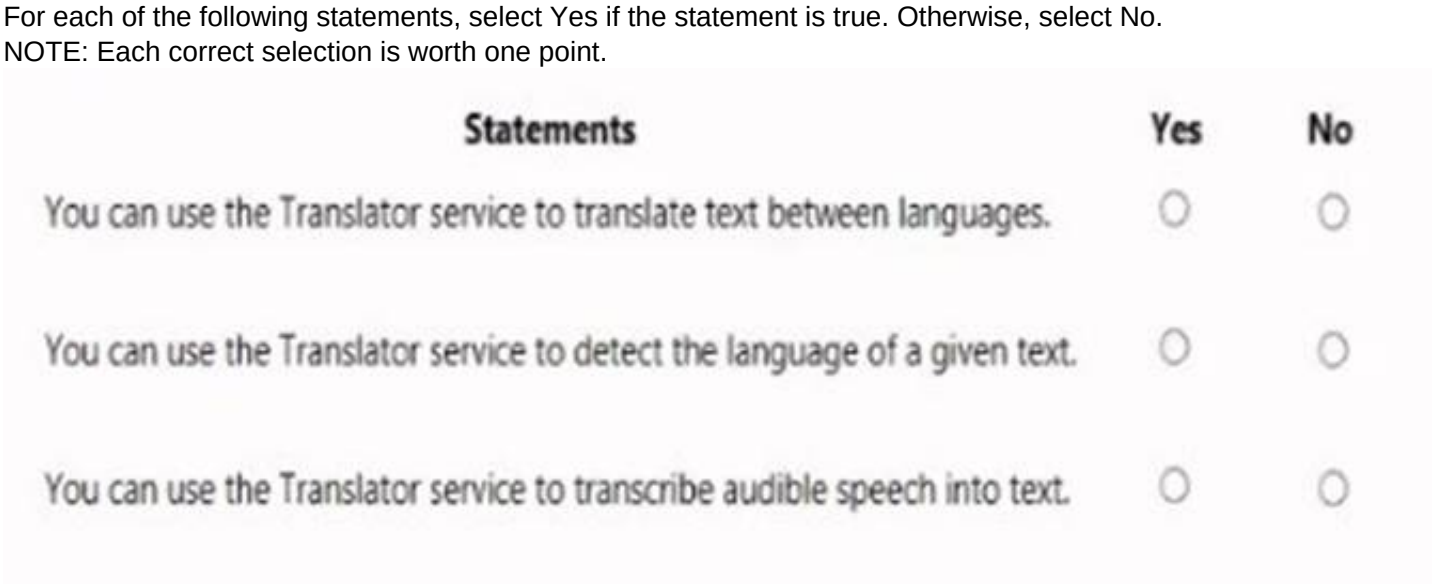


A. Mastered
B. Not Mastered

Answer: A

Explanation:

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.



A. Mastered
B. Not Mastered

Answer: A

Explanation:

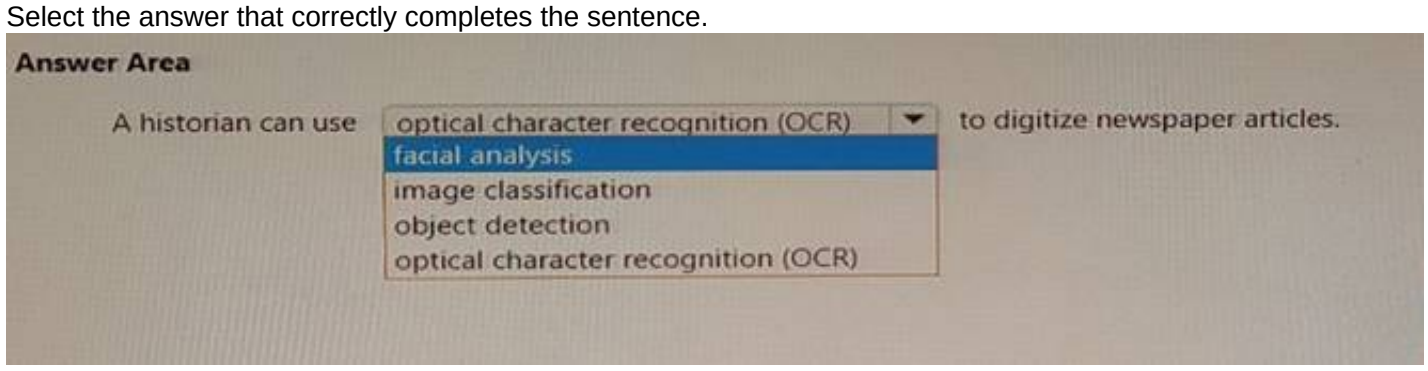
Statements	Yes	No
You can use the Translator service to translate text between languages.	○	○
You can use the Translator service to detect the language of a given text.	○	○
You can use the Translator service to transcribe audible speech into text.	○	○

NEW QUESTION 78
- (Topic 5)
Which two scenarios are examples of a natural language processing workload? Each correct answer presents a complete solution.
NOTE; Each correct selection is worth one point.

A. assembly line machinery that autonomously inserts headlamps into cars
B. a smart device in the home that responds to questions such as, "What will the weather be like today?
C. monitoring the temperature of machinery to turn on a fan when the temperature reaches a specific threshold
D. a website that uses a knowledge base to interactively respond to users' questions

Answer: BD

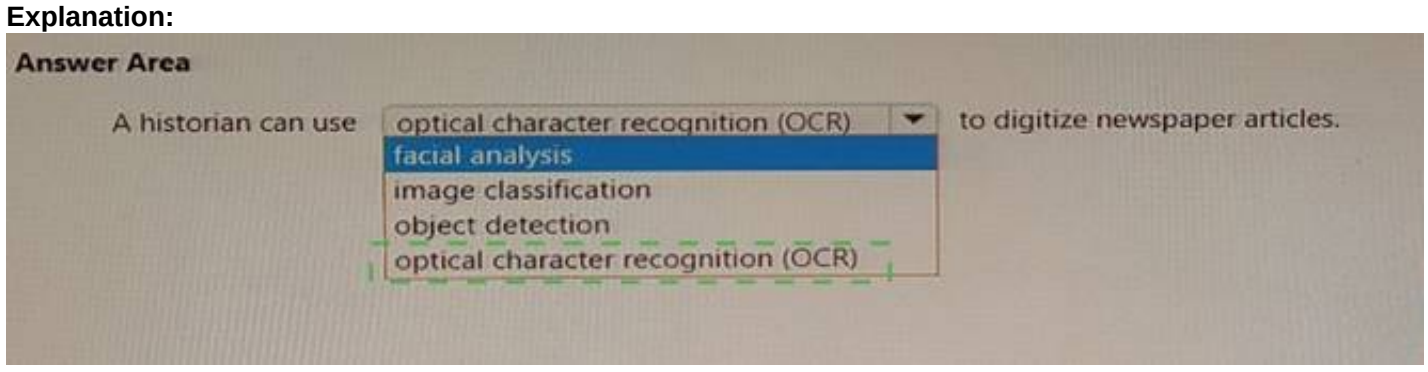
NEW QUESTION 80
HOTSPOT - (Topic 5)
Select the answer that correctly completes the sentence.



A. Mastered
B. Not Mastered

Answer: A

Explanation:



NEW QUESTION 85
HOTSPOT - (Topic 5)
To complete the sentence, select the appropriate option in the answer area.

A. Mastered
B. Not Mastered

Answer: A

Explanation:

NEW QUESTION 88
- (Topic 5)
You have an Internet of Things (IoT) device that monitors engine temperature.
The device generates an alert if the engine temperature deviates from expected norms.
Which type of Al workload does the device represent?

A. natural language processing (NLP)
B. computer vision
C. anomaly detection
D. knowledge mining

Answer: C

NEW QUESTION 89
- (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. Al enrichment for Azure Search capabilities
B. Computer Vision Image Analysis capabilities
C. Custom Vision Image Classification capabilities
D. Language understanding capabilities

Answer: B

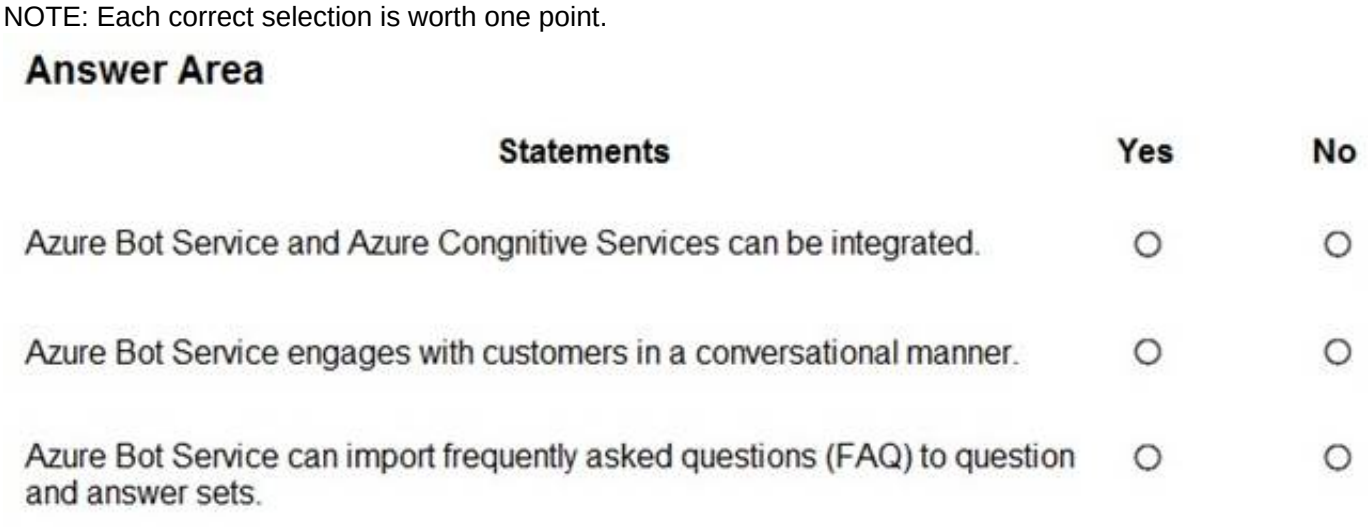
NEW QUESTION 93
- (Topic 5)
You are building a knowledge base by using QnA Maker. Which file format can you use to populate the knowledge base?

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 94
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.



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 98
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.	○	○
You can communicate with a bot by using Microsoft Teams.	○	○
You can communicate with a bot by using a webchat interface.	○	○

A. Mastered
B. Not Mastered

Answer: A

Explanation:

Statements	Yes	No
You can communicate with a bot by using email.	○	○
You can communicate with a bot by using Microsoft Teams.	○	○
You can communicate with a bot by using a webchat interface.	○	○

NEW QUESTION 100
- (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 102
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.	○	○
A mobile application that displays images relating to an entered search term is an example of a natural language processing workload.	○	○
A web form used to submit a request to reset a password is an example of a natural language processing workload.	○	○

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.	○	○
A mobile application that displays images relating to an entered search term is an example of a natural language processing workload.	○	○
A web form used to submit a request to reset a password is an example of a natural language processing workload.	○	○

NEW QUESTION 104
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
You can use the Speech service to transcribe a call to text.	○	○
You can use the Text Analytics service to extract key entities from a call transcript.	○	○
You can use the Speech service to translate the audio of a call to a different language.	○	○

A. Mastered
B. Not Mastered

Answer: A

Explanation:

Answer Area

Statements	Yes	No
You can use the Speech service to transcribe a call to text.	○	○
You can use the Text Analytics service to extract key entities from a call transcript.	○	○
You can use the Speech service to translate the audio of a call to a different language.	○	○

NEW QUESTION 106
- (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
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.	○	○
You can use the Translator service to detect the language of a given text.	○	○
You can use the Translator service to transcribe audible speech into text.	○	○

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 114
DRAG DROP - (Topic 4)
You plan to apply Text Analytics API features to a technical support ticketing system.
Match the Text Analytics API features to the appropriate natural language processing scenarios.
To answer, drag the appropriate feature from the column on the left to its scenario on the right. Each feature may be used once, more than once, or not at all.
NOTE: Each correct selection is worth one point.

API Features	Answer Area	
Entity recognition	API Feature	Understand how upset a customer is based on the text contained in the support ticket.
Key phrase extraction	API Feature	Summarize important information from the support ticket.
Language detection	API Feature	Extract key dates from the support ticket.
Sentiment analysis		

A. Mastered
B. Not Mastered

Answer: A

Explanation:
Box1: Sentiment analysis
Sentiment Analysis is the process of determining whether a piece of writing is positive, negative or neutral.
Box 2: Broad entity extraction
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.
Box 3: Entity Recognition
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 115
- (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 119
- (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 phase 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 121
- (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 122
- (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 125
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 **Multilabel** or **Multiclass**.	○	○
You can create an object detection model in the Custom Vision service to find the location of content within an image.	○	○
When creating an object detection model in the Custom Vision service, you can select from a set of predefined domains.	○	○

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 **Multilabel** or **Multiclass**.	○	○
You can create an object detection model in the Custom Vision service to find the location of content within an image.	○	○
When creating an object detection model in the Custom Vision service, you can select from a set of predefined domains.	○	○

NEW QUESTION 126
- (Topic 3)
You are processing photos of runners in a race.
You need to read the numbers on the runners' shirts to identity the runners in the photos. Which type of computer vision should you use?

A. facial recognition
B. optical character recognition (OCR)
C. semantic segmentation
D. object detection

Answer: B

Explanation:
Optical character recognition (OCR) allows you to extract printed or handwritten text from images and documents.
Reference:
https://docs.microsoft.com/en-us/azure/cognitive-services/computer-vision/overview-ocr

NEW QUESTION 127
- (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 129
- (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 132
HOTSPOT - (Topic 3)
You have a database that contains a list of employees and their photos. You are tagging new photos of the employees.
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 Face service can be used to group all the employees who have similar facial characteristics.	○	○
The Face service will be more accurate if you provide more sample photos of each employee from different angles.	○	○
If an employee is wearing sunglasses, the Face service will always fail to recognize the employee.	○	○

A. Mastered
B. Not Mastered

Answer: A

Explanation:

Answer Area

Statements	Yes	No
The Face service can be used to group all the employees who have similar facial characteristics.	○	○
The Face service will be more accurate if you provide more sample photos of each employee from different angles.	○	○
If an employee is wearing sunglasses, the Face service will always fail to recognize the employee.	○	○

NEW QUESTION 135
- (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 139
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.

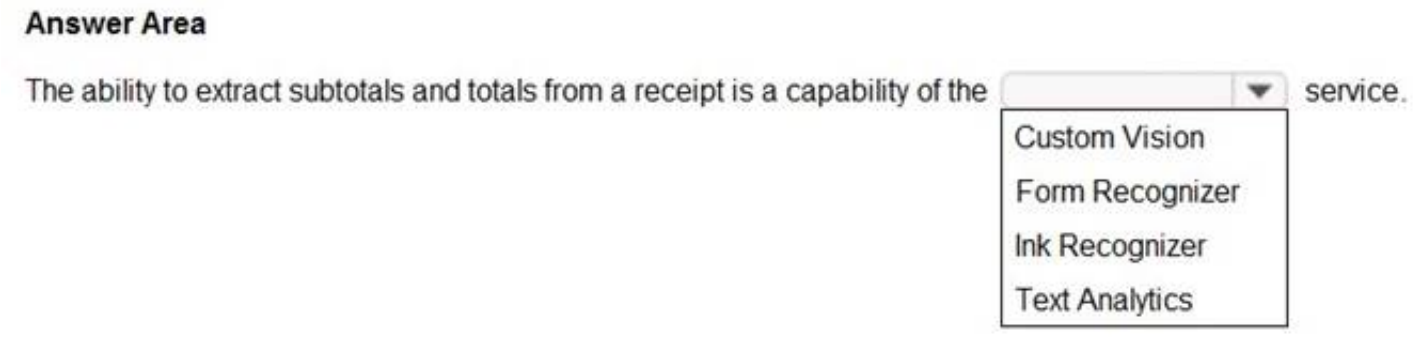
NEW QUESTION 140
- (Topic 2)
You have a dataset that contains information about taxi journeys that occurred during a given period.
You need to train a model to predict the fare of a taxi journey. What should you use as a feature?

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 144
HOTSPOT - (Topic 2)
To complete the sentence, select the appropriate option in the answer area.

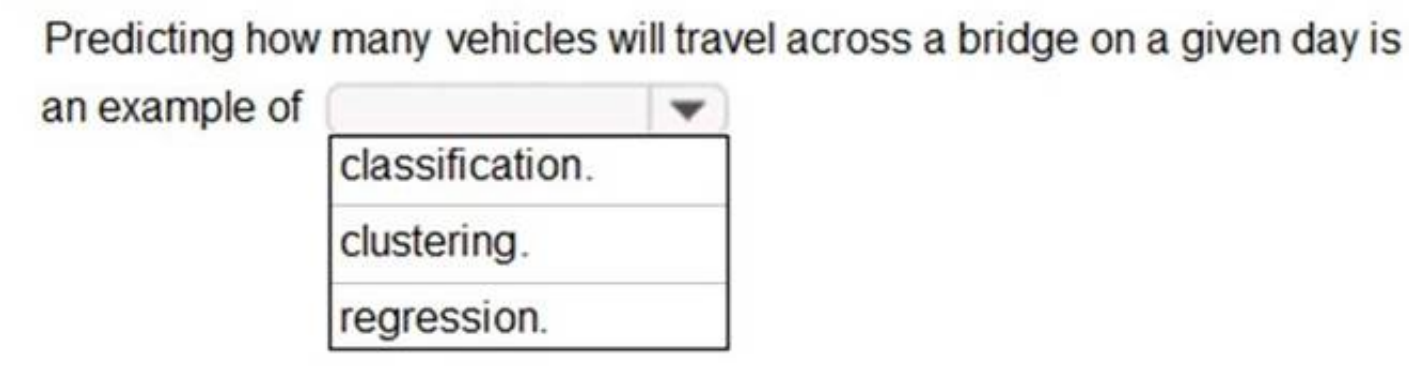


A. Mastered
B. Not Mastered

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 149
HOTSPOT - (Topic 2)
To complete the sentence, select the appropriate option in the answer area.



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 153
HOTSPOT - (Topic 2)
To complete the sentence, select the appropriate option in the answer area.

Answer Area

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

- classification.
- clustering.
- regression.

A. Mastered
B. Not Mastered

Answer: A

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.

NEW QUESTION 157
- (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 162
HOTSPOT - (Topic 2)
To complete the sentence, select the appropriate option in the answer area.

Assigning classes to images before training a classification model is an example of [ ]

- evaluation.
- feature engineering
- hyperparameter tuning.
- labeling.

A. Mastered
B. Not Mastered

Answer: A

Explanation:

Assigning classes to images before training a classification model is an example of

evaluation.
feature engineering
hyperparameter tuning.
labeling.

NEW QUESTION 166
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

Explanation:

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 167
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
Azure Machine Learning designer provides a drag-and-drop visual canvas to build, test, and deploy machine learning models.	○	○
Azure Machine Learning designer enables you to save your progress as a pipeline draft.	○	○
Azure Machine Learning designer enables you to include custom JavaScript functions.	○	○

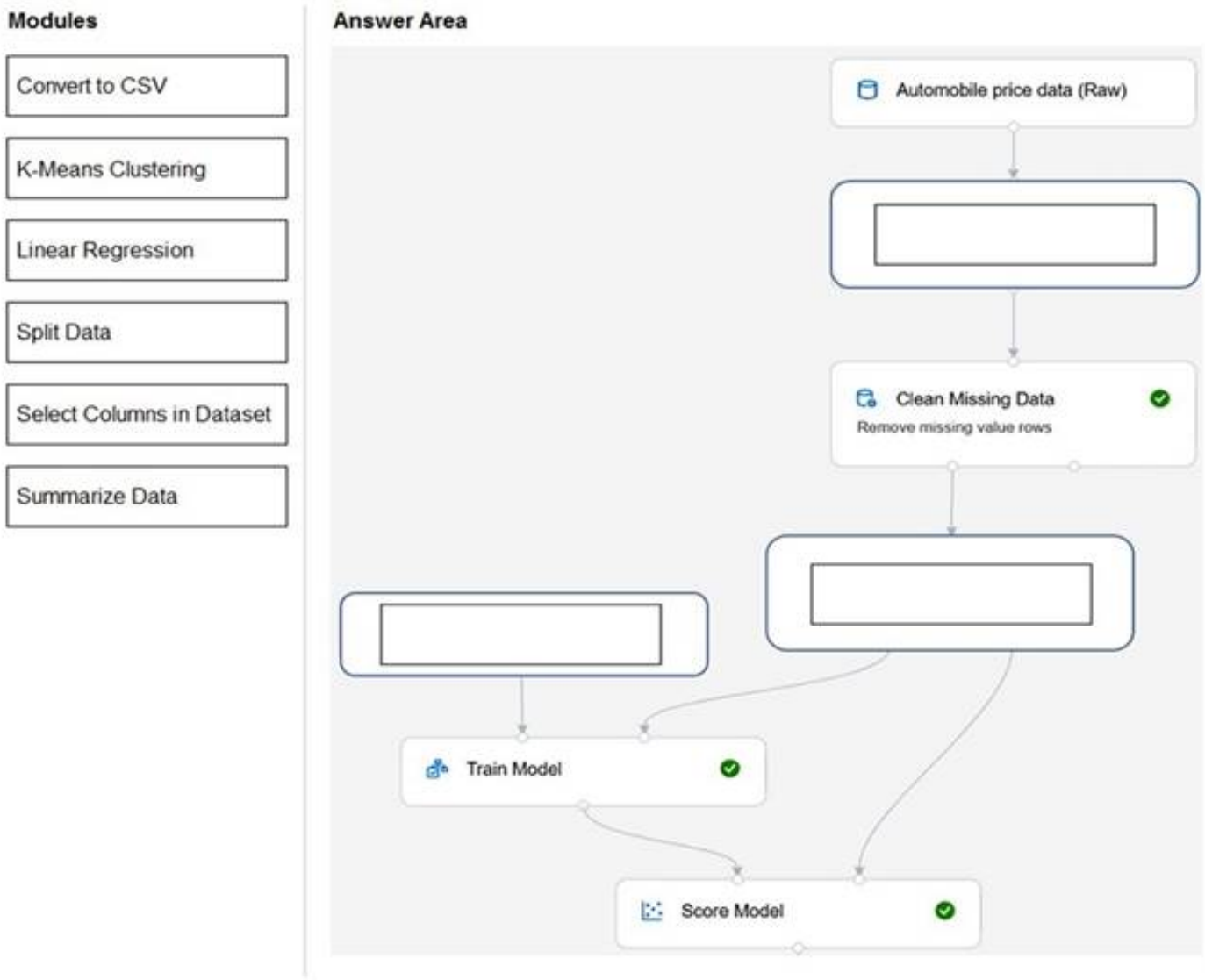
A. Mastered
B. Not Mastered

Answer: A

Explanation:
Box 1: Yes
Azure Machine Learning designer lets you visually connect datasets and modules on an interactive canvas to create machine learning models.
Box 2: Yes
With the designer you can connect the modules to create a pipeline draft.
As you edit a pipeline in the designer, your progress is saved as a pipeline draft. Box 3: No

NEW QUESTION 170
DRAG DROP - (Topic 2)
You need to use Azure Machine Learning designer to build a model that will predict automobile prices.
Which type of modules should you use to complete the model? To answer, drag the appropriate modules to the correct locations. Each module 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.

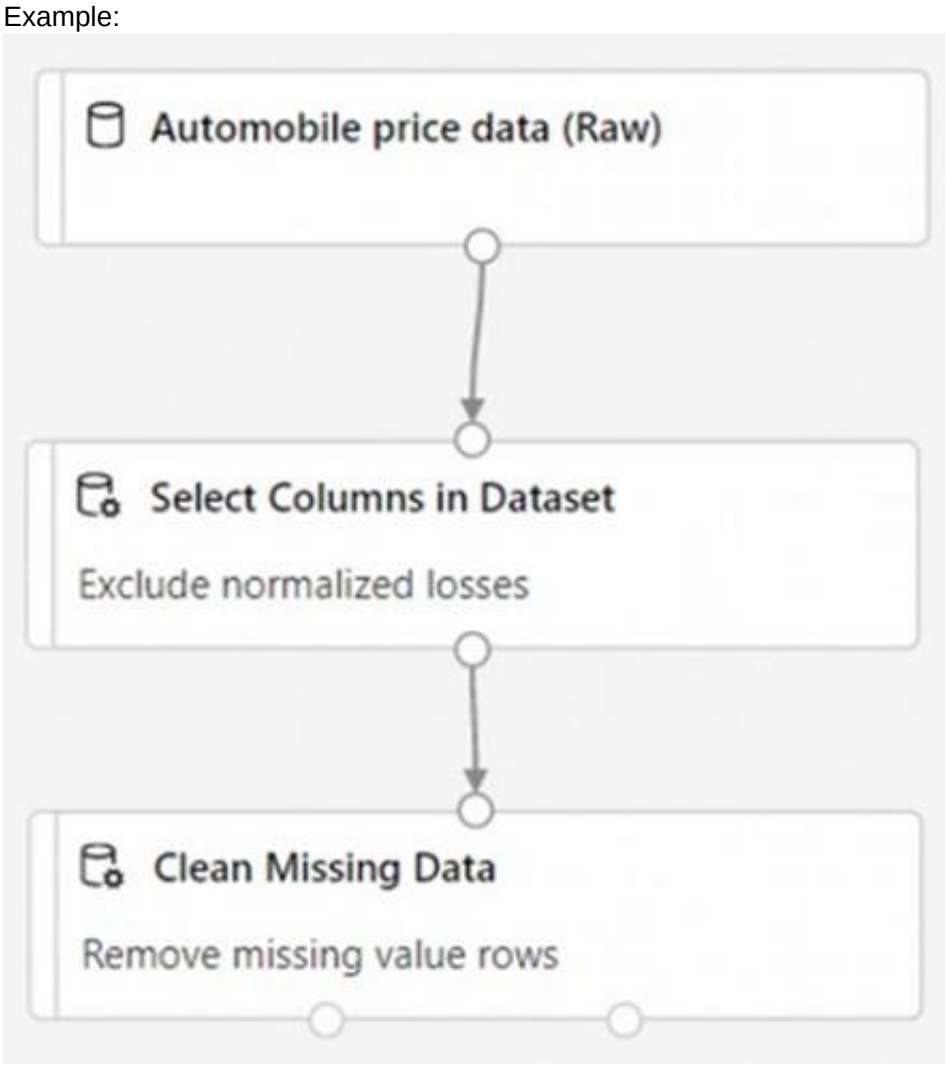
NOTE: Each correct selection is worth one point.



A. Mastered
B. Not Mastered

Answer: A

Explanation:
Box 1: Select Columns in Dataset
For Columns to be cleaned, choose the columns that contain the missing values you want to change. You can choose multiple columns, but you must use the same replacement method in all selected columns.
Example:



Box 2: Split data
Splitting data is a common task in machine learning. You will split your data into two separate datasets. One dataset will train the model and the other will test how well the model performed.
Box 3: Linear regression
Because you want to predict price, which is a number, you can use a regression algorithm. For this example, you use a linear regression model.

NEW QUESTION 171

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 ▼] type of machine learning.

- classification
- regression
- clustering

NEW QUESTION 175
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

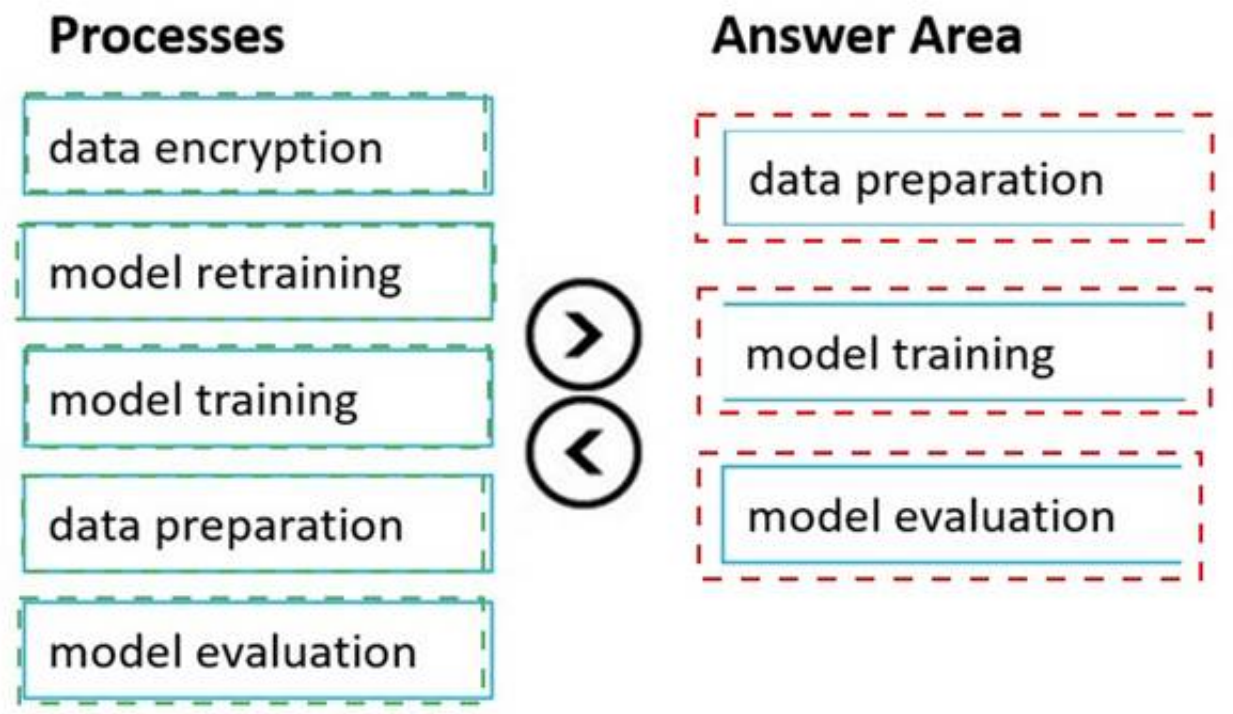
- data encryption
- model retraining
- model training
- data preparation
- model evaluation

Answer Area

A. Mastered
B. Not Mastered

Answer: A

Explanation:



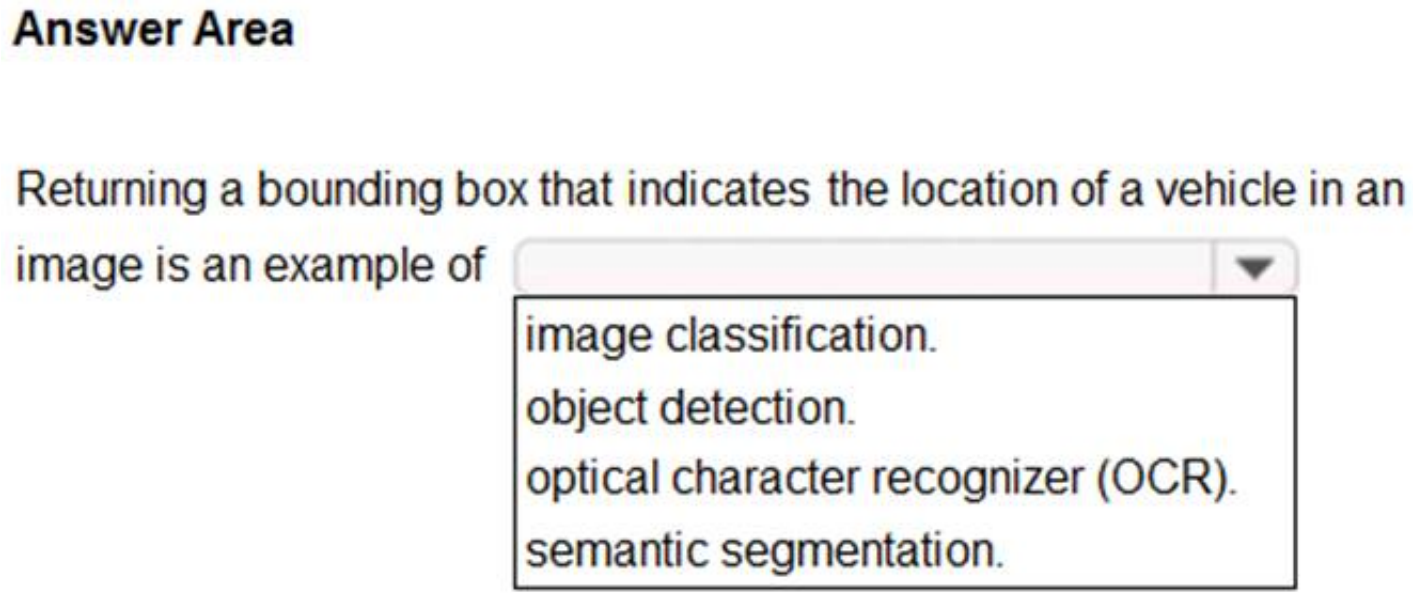
NEW QUESTION 176
- (Topic 1)
You run a charity event that involves posting photos of people wearing sunglasses on Twitter.
You need to ensure that you only retweet photos that meet the following requirements:
Include one or more faces.
Contain at least one person wearing sunglasses. What should you use 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 180
HOTSPOT - (Topic 1)
To complete the sentence, select the appropriate option in the answer area.



A. Mastered
B. Not Mastered

Answer: A

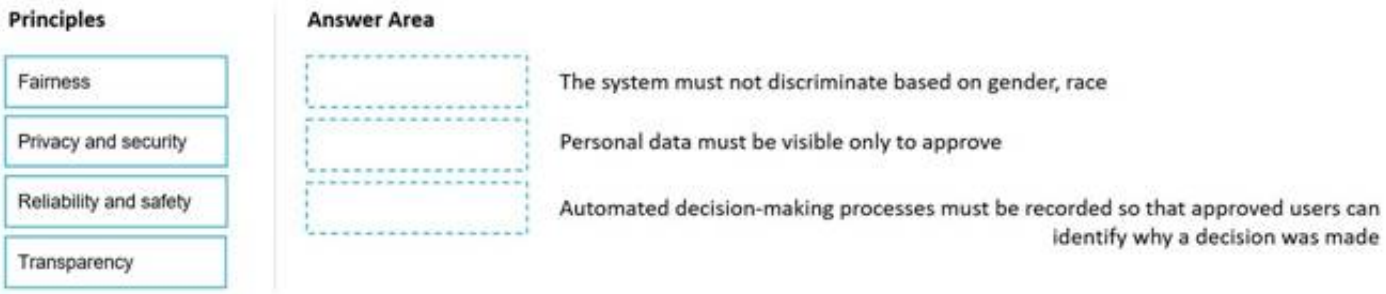
Explanation:

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.

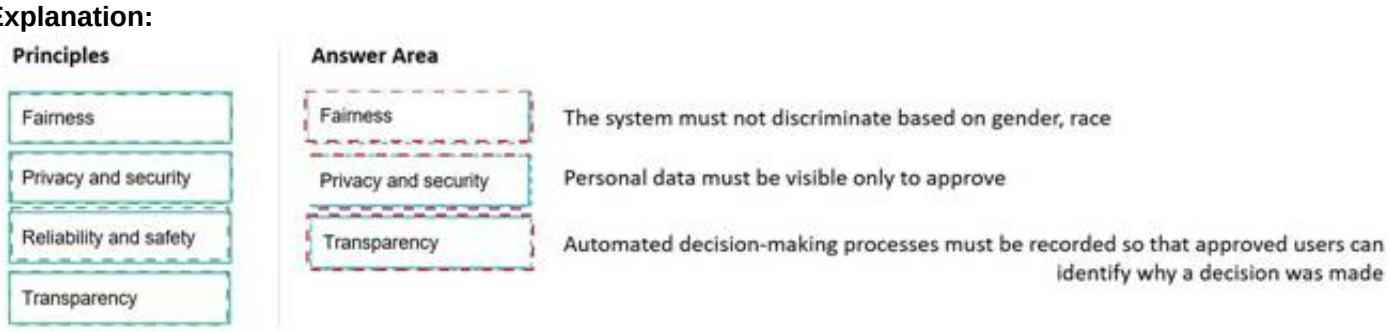
NEW QUESTION 183
DRAG DROP - (Topic 1)
Match the principles of responsible AI to appropriate requirements.
To answer, drag the appropriate principles from the column on the left to its requirement on the right. Each principle may be used once, more than once, or not at all. You may need to drag the split bar between panes or scroll to view content.
NOTE: Each correct selection is worth one point.



A. Mastered
B. Not Mastered

Answer: A

Explanation:



NEW QUESTION 187
- (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?

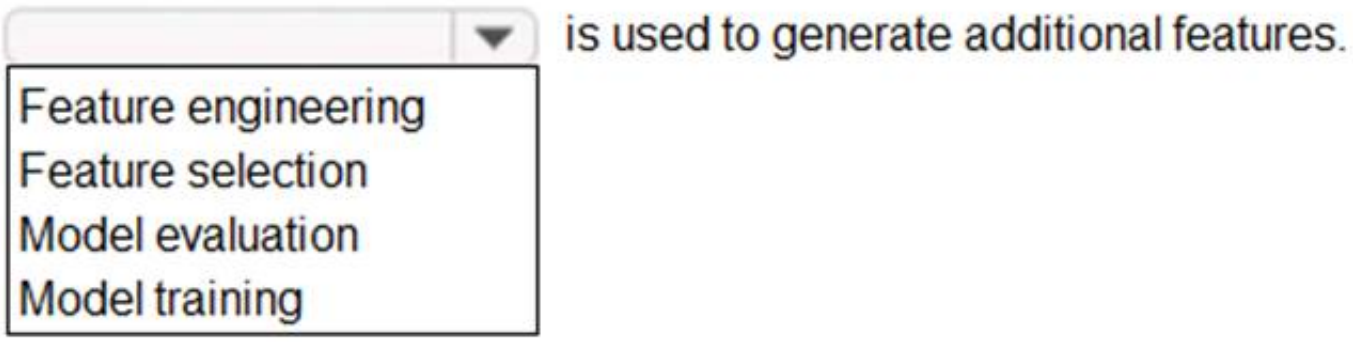
A. Ensure that all visuals have an associated text that can be read by a screen reader.
B. Enable autoscaling to ensure that a service scales based on demand.
C. Provide documentation to help developers debug code.
D. Ensure that a training dataset is representative of the population.

Answer: C

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

NEW QUESTION 191
HOTSPOT - (Topic 1)
To complete the sentence, select the appropriate option in the answer area.

Answer Area

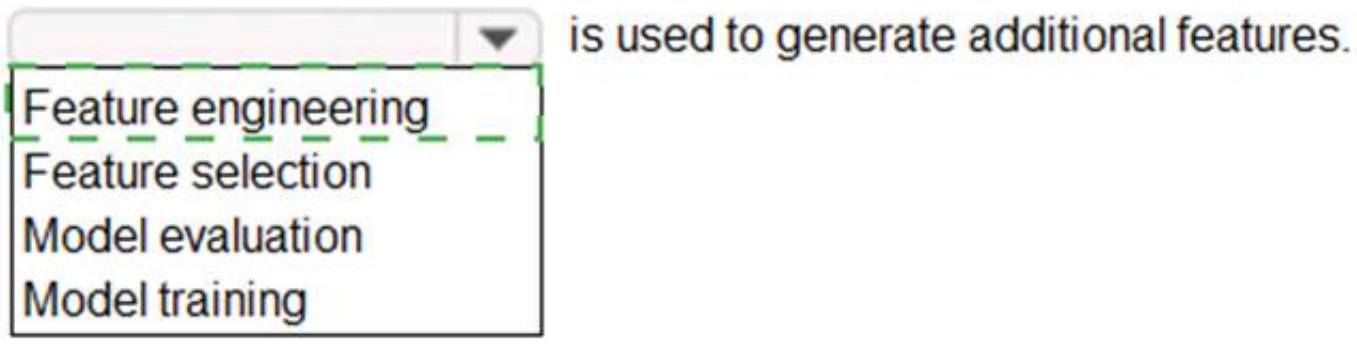


A. Mastered
B. Not Mastered

Answer: A

Explanation:

Answer Area



NEW QUESTION 194
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