

## AI-900 Dumps

### Microsoft Azure AI Fundamentals (beta)

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



**NEW QUESTION 1**

DRAG DROP - (Topic 5)

You plan to deploy an Azure Machine Learning model by using the Machine Learning designer

Which four actions should you perform in sequence? To answer, move the appropriate actions from the list of actions to the answer area and arrange them in the correct order.

The screenshot shows the Machine Learning Designer interface. On the left, under the 'Actions' tab, there is a list of five actions: 'Evaluate the model against the original dataset.', 'Ingest and prepare a dataset.', 'Split the data randomly into training data and validation data.', 'Train the model.', and 'Evaluate the model against the validation dataset.'. On the right, there is an 'Answer Area' with four numbered slots (1, 2, 3, 4) and two arrow buttons (up and down) for reordering.

- A. Mastered
- B. Not Mastered

**Answer: A**

**Explanation:**

The screenshot shows the same Machine Learning Designer interface as above, but with the correct sequence of four actions highlighted in red in the 'Answer Area' and numbered 1 through 4: 1. 'Ingest and prepare a dataset.', 2. 'Split the data randomly into training data and validation data.', 3. 'Train the model.', and 4. 'Evaluate the model against the validation dataset.'. The other actions in the list are faded out.

**NEW QUESTION 2**

- (Topic 5)

You plan to build a conversational AI solution that can be surfaced in Microsoft Teams, Microsoft Cortana, and Amazon Alexa. Which service should you use?

- A. Azure Bot Service
- B. Azure Cognitive Search
- C. Language service
- D. Speech

**Answer: A**

**NEW QUESTION 3**

- (Topic 5)

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

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

NOTE: Each correct selection is worth one point.

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

**Answer: BC**

**Explanation:**

Bots are a popular way to provide support through multiple communication channels. You can use the QnA Maker service and Azure Bot Service to create a bot that answers user questions. Reference: <https://docs.microsoft.com/en-us/learn/modules/build-faq-chatbot-qna-maker-azure-bot-service/>

**NEW QUESTION 4**

HOTSPOT - (Topic 5)

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.

The screenshot shows the 'Answer Area' for Question 4. It contains a table with three rows of statements and two columns for 'Yes' and 'No' responses. Each cell contains a radio button.

Statements	Yes	No
Mass (kg) is a feature.	<input type="radio"/>	<input type="radio"/>
Quality Test is a label.	<input type="radio"/>	<input type="radio"/>
Temperature (C) is a label.	<input type="radio"/>	<input type="radio"/>

- A. Mastered
- B. Not Mastered

**Answer:** A

**Explanation:**

Answer Area

Statements	Yes	No
Mass (kg) is a feature.	<input checked="" type="radio"/>	<input type="radio"/>
Quality Test is a label.	<input checked="" type="radio"/>	<input type="radio"/>
Temperature (C) is a label.	<input type="radio"/>	<input checked="" type="radio"/>

**NEW QUESTION 5**

HOTSPOT - (Topic 5)

Select the answer that correctly completes the sentence.

Answer Area

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

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

- A. Mastered
- B. Not Mastered

**Answer:** A

**Explanation:**

Answer Area

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

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

**NEW QUESTION 6**

- (Topic 5)

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

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

**Answer:** B

**Explanation:**

Reference:

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

**NEW QUESTION 7**

- (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 8**

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 9**

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 10**

- (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 10**

HOTSPOT - (Topic 5)

Select the answer that correctly completes the sentence

**Answer Area**

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

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

- A. Mastered
- B. Not Mastered

**Answer: A**

**Explanation:**

**Answer Area**

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

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

**NEW QUESTION 12**

HOTSPOT - (Topic 5)

Select the answer that correctly completes the sentence.

**Answer Area**

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

- numeric.
- boolean.
- datetime.
- numeric.**
- text.

- A. Mastered
- B. Not Mastered

**Answer: A**

**Explanation:**

**Answer Area**

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

- numeric.
- boolean.
- datetime.
- numeric.**
- text.

**NEW QUESTION 13**

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 15**

HOTSPOT - (Topic 5)

Select the answer that correctly completes the sentence.

**Answer Area**

When evaluating the performance of a model, the

confusion matrix  
 AUC metric  
 confusion matrix  
 ROC curve  
 threshold

displays the predicted and actual positives and negatives by using a grid of 0 and 1 values.

- A. Mastered
- B. Not Mastered

**Answer: A**

**Explanation:**

**Answer Area**

When evaluating the performance of a model, the

confusion matrix  
 AUC metric  
 confusion matrix  
 ROC curve  
 threshold

displays the predicted and actual positives and negatives by using a grid of 0 and 1 values.

**NEW QUESTION 20**

- (Topic 5)

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

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

**Answer: BC**

**NEW QUESTION 23**

DRAG DROP - (Topic 5)

Match the services to the appropriate descriptions.

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

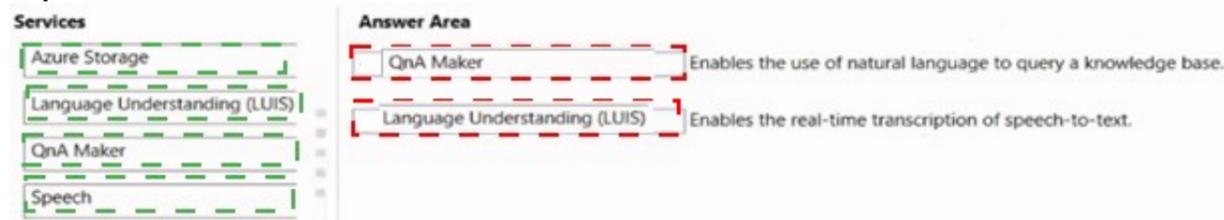
NOTE: Each correct match is worth one point

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

- A. Mastered
- B. Not Mastered

**Answer:** A

**Explanation:**



**NEW QUESTION 28**

- (Topic 5)

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

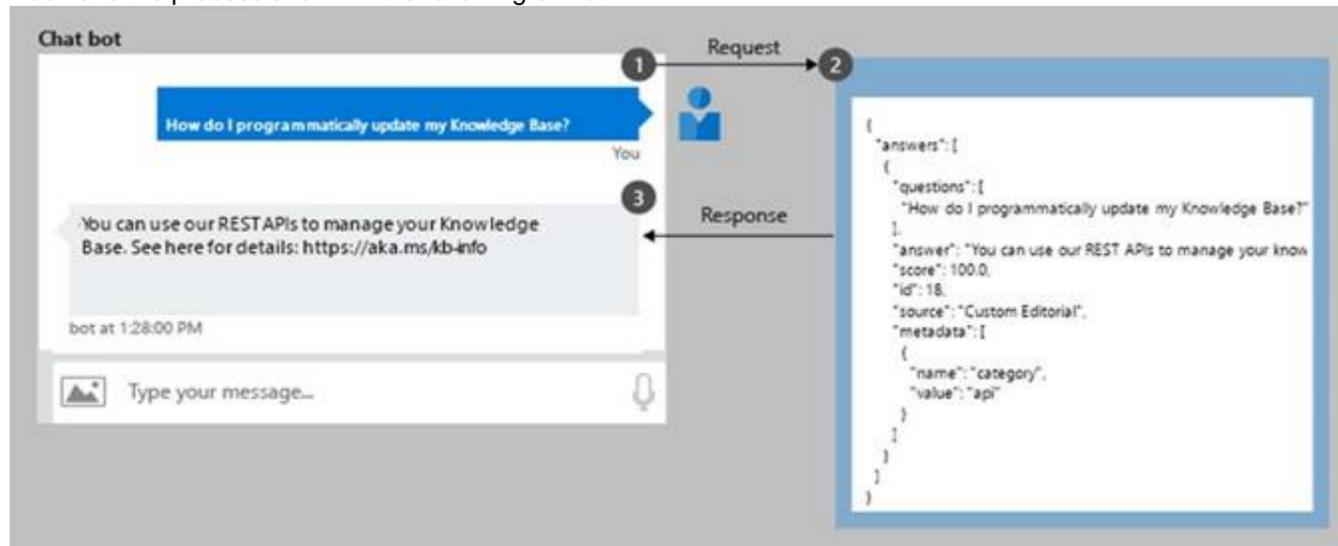
- A. Recognize text.
- B. Describe the images.
- C. Identify the areas of interest.
- D. Detect objects.

**Answer:** B

**NEW QUESTION 33**

- (Topic 5)

You have the process shown in the following exhibit.



Which type AI solution is shown in the diagram?

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

**Answer:** B

**NEW QUESTION 34**

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.

- 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.

**NEW QUESTION 38**

- (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 42**

- (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 46**

HOTSPOT - (Topic 5)

Select the answer that correctly completes the sentence.

**Answer Area**

According to Microsoft's 

fairness	⌵
accountability	
fairness	
inclusiveness	
transparency	

 principle of responsible AI,

AI systems should **NOT** reflect biases from the data sets that are used to train the systems.

- A. Mastered
- B. Not Mastered

**Answer:** A

**Explanation:**

**Answer Area**

According to Microsoft's 

fairness	⌵
accountability	
fairness	
inclusiveness	
transparency	

 principle of responsible AI,

AI systems should **NOT** reflect biases from the data sets that are used to train the systems.

**NEW QUESTION 47**

- (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 50**

- (Topic 5)

Which two scenarios are examples of a conversational AI workload? Each correct answer presents a complete solution.

NOTE: Each correct selection is worth one point.

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

Answer: AB

**NEW QUESTION 52**

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 53**

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

- A. Mastered
- B. Not Mastered

Answer: A

Explanation:

Answer Area

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

**NEW QUESTION 57**

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 restaurant can use a chatbot to answer queries through Cortana.	<input type="radio"/>	<input type="radio"/>
A restaurant can use a chatbot to answer inquiries about business hours from a webpage.	<input type="radio"/>	<input type="radio"/>
A restaurant can use a chatbot to automate responses to customer reviews on an external website.	<input type="radio"/>	<input type="radio"/>

- A. Mastered
- B. Not Mastered

Answer: A

Explanation:

Answer Area

Statements	Yes	No
A restaurant can use a chatbot to answer queries through Cortana.	<input checked="" type="radio"/>	<input type="radio"/>
A restaurant can use a chatbot to answer inquiries about business hours from a webpage.	<input type="radio"/>	<input type="radio"/>
A restaurant can use a chatbot to automate responses to customer reviews on an external website.	<input type="radio"/>	<input type="radio"/>

**NEW QUESTION 58**

- (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 62**

- (Topic 5)

Which machine learning technique can be used for anomaly detection?

- A. A machine learning technique that understands written and spoken language.
- B. A machine learning technique that classifies objects based on user supplied images.
- C. A machine learning technique that analyzes data over time and identifies unusual changes.
- D. A machine learning technique that classifies images based on their contents.

Answer: C

**NEW QUESTION 63**

HOTSPOT - (Topic 5)

Select the answer that correctly completes the sentence.

Answer Area

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

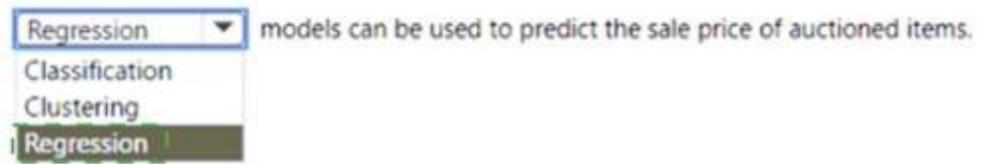
- Regression
- Classification
- Clustering
- Regression

- A. Mastered
- B. Not Mastered

Answer: A

Explanation:

**Answer Area**



**NEW QUESTION 64**

- (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 69**

- (Topic 5)

Which Azure Cognitive Services service can be used to identify documents that contain sensitive information?

- A. Custom Vision
- B. Conversational Language Understanding
- C. Form Recognizer

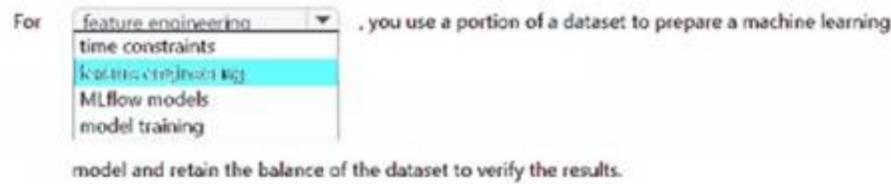
**Answer: C**

**NEW QUESTION 73**

HOTSPOT - (Topic 5)

Select the answer that correctly completes the sentence.

**Answer Area**

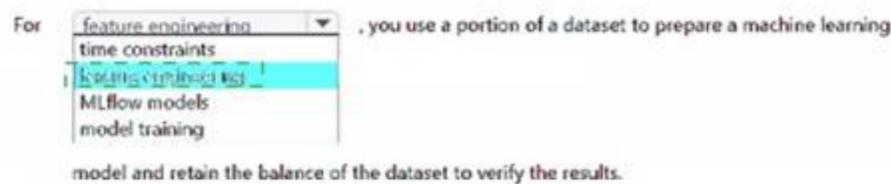


- A. Mastered
- B. Not Mastered

**Answer: A**

**Explanation:**

**Answer Area**



**NEW QUESTION 76**

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

- A. Mastered
- B. Not Mastered

**Answer:** A

**Explanation:**

Answer Area

Statements	Yes	No
The Language service can identify in which language text is written.	<input checked="" type="radio"/>	<input type="radio"/>
The Language service can detect handwritten signatures in a document.	<input type="radio"/>	<input checked="" type="radio"/>
The Language service can identify companies and organizations mentioned in a document.	<input checked="" type="radio"/>	<input type="radio"/>

**NEW QUESTION 78**

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 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 84**

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)

You need to create a clustering model and evaluate the model by using Azure Machine Learning designer. What should you do?

- A. Split the original dataset into a dataset for features and a dataset for label
- B. Use the features dataset for evaluation.
- C. Split the original dataset into a dataset for training and a dataset for testin
- D. Use the training dataset for evaluation.
- E. Split the original dataset into a dataset for training and a dataset for testin
- F. Use the testing dataset for evaluation.
- G. Use the original dataset for training and evaluation.

**Answer:** C

**NEW QUESTION 87**

- (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.

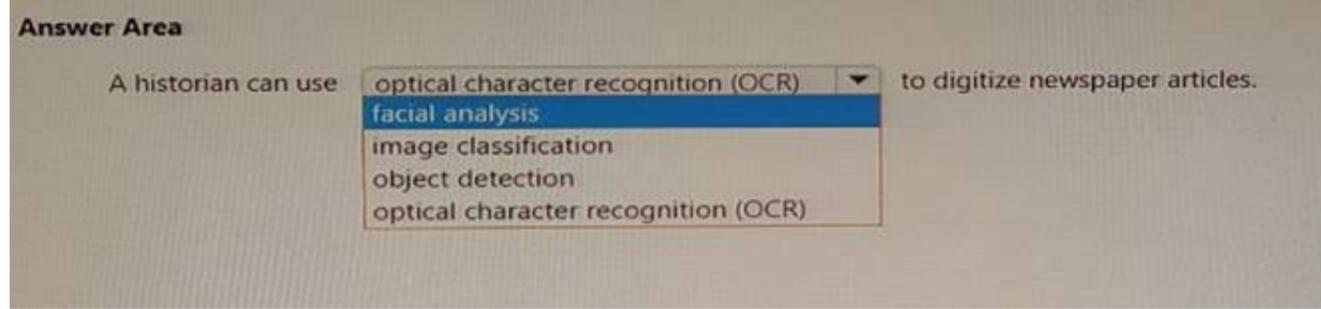
- A. assembly line machinery that autonomously inserts headlamps into cars
- B. a smart device in the home that responds to questions such as, "What will the weather be like today?"
- C. monitoring the temperature of machinery to turn on a fan when the temperature reaches a specific threshold
- D. a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

**Answer:** BD

**NEW QUESTION 92**

HOTSPOT - (Topic 5)

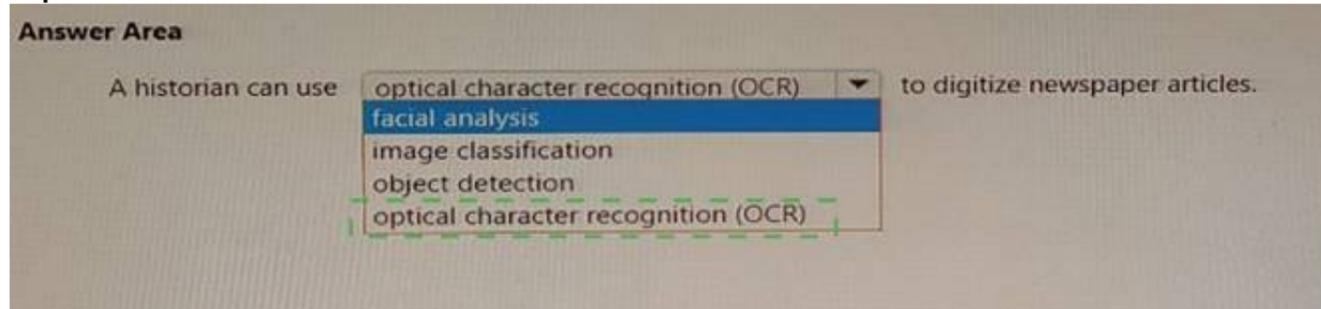
Select the answer that correctly completes the sentence.



- A. Mastered
- B. Not Mastered

Answer: A

Explanation:



NEW QUESTION 96

- (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.

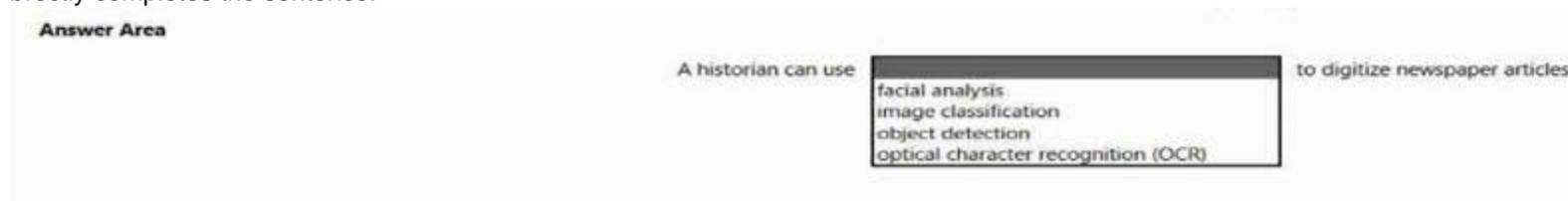
- A. C#
- B. Scala
- C. Python
- D. R

Answer: CD

NEW QUESTION 100

HOTSPOT - (Topic 5)

correctly completes the sentence.



- A. Mastered
- B. Not Mastered

Answer: A

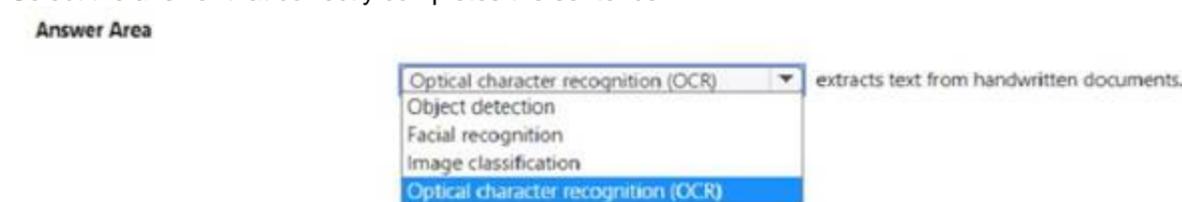
Explanation:



NEW QUESTION 103

HOTSPOT - (Topic 5)

Select the answer that correctly completes the sentence.



- A. Mastered
- B. Not Mastered

**Answer:** A

**Explanation:**

Answer Area



**NEW QUESTION 105**

HOTSPOT - (Topic 5)

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

Answer Area

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

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

- A. Mastered
- B. Not Mastered

**Answer:** A

**Explanation:**

Answer Area

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

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

**NEW QUESTION 109**

- (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 AI workload does the device represent?

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

**Answer:** C

**NEW QUESTION 112**

- (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 117**

- (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 118**

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 123**

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 126**

- (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 130**

HOTSPOT - (Topic 4)

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

**Answer Area**

While presenting at a conference, your session is transcribed into subtitles for the audience. This is an example of

▼

- sentiment analysis.
- speech recognition.
- speech synthesis.
- translation.

- A. Mastered
- B. Not Mastered

**Answer:** A

**Explanation:**

**Answer Area**

While presenting at a conference, your session is transcribed into subtitles for the audience. This is an example of

▼

- sentiment analysis.
- speech recognition.
- speech synthesis.
- translation.

**NEW QUESTION 135**

HOTSPOT - (Topic 4)

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

**Answer Area**

Natural language processing can be used to

▼

- classify email messages as work-related or personal.
- predict the number of future car rentals.
- predict which website visitors will make a transaction.
- stop a process in a factory when extremely high temperatures are registered.

- A. Mastered
- B. Not Mastered

**Answer:** A

**Explanation:**

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

**NEW QUESTION 138**

- (Topic 4)

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

NOTE: Each correct selection is worth one point.

- A. an in-car system that reads text messages aloud
- B. providing closed captions for recorded or live videos
- C. creating an automated public address system for a train station
- D. creating a transcript of a telephone call or meeting

**Answer:** BD

**Explanation:**

Reference:

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

**NEW QUESTION 142**

- (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 144**

- (Topic 4)

You are developing a natural language processing solution in Azure. The solution will analyze customer reviews and determine how positive or negative each review is.

This is an example of which type of natural language processing workload?

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

**Answer:** B

**Explanation:**

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

Reference:

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

**NEW QUESTION 147**

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**

- Entity recognition
- Key phrase extraction
- Language detection
- Sentiment analysis

**Answer Area**

- API Feature Understand how upset a customer is based on the text contained in the support ticket.
- API Feature Summarize important information from the support ticket.
- API Feature Extract key dates from the support ticket.

- 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 152

- (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 154

- (Topic 4)

You are building a Language Understanding model for an e-commerce business.

You need to ensure that the model detects when utterances are outside the intended scope of the model.

What should you do?

- A. Test the model by using new utterances
- B. Add utterances to the None intent
- C. Create a prebuilt task entity
- D. Create a new model

**Answer: B**

#### Explanation:

The None intent is filled with utterances that are outside of your domain. Reference:

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

#### NEW QUESTION 157

- (Topic 4)

Your website has a chatbot to assist customers.

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

Which type of AI workload should you use?

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

**Answer: D**

#### Explanation:

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

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

Reference:

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

#### NEW QUESTION 158

- (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 161**

- (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 164**

- (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 165**

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 167**

- (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 168**

- (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 171**

- (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 173**

- (Topic 2)

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

The solution will use a custom model.

Which Azure Cognitive Services service should you use?

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

**Answer:** A

**Explanation:**

Reference:

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

**NEW QUESTION 175**

- (Topic 2)

You need to create a training dataset and validation dataset from an existing dataset. Which module in the Azure Machine Learning designer should you use?

- A. Select Columns in Dataset
- B. Add Rows
- C. Split Data
- D. Join Data

**Answer:** C

**Explanation:**

A common way of evaluating a model is to divide the data into a training and test set by

using Split Data, and then validate the model on the training data. Use the Split Data module to divide a dataset into two distinct sets. The studio currently supports training/validation data splits

Reference:

<https://docs.microsoft.com/en-us/azure/machine-learning/how-to-configure-cross-validation-data-splits2>

**NEW QUESTION 176**

HOTSPOT - (Topic 3)

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

**Answer Area**

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

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

- A. Mastered
- B. Not Mastered

**Answer:** A

**Explanation:**

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

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

**NEW QUESTION 181**

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.	<input type="radio"/>	<input type="radio"/>
The Face service will be more accurate if you provide more sample photos of each employee from different angles.	<input type="radio"/>	<input type="radio"/>
If an employee is wearing sunglasses, the Face service will always fail to recognize the employee.	<input type="radio"/>	<input type="radio"/>

- 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.	<input checked="" type="radio"/>	<input type="radio"/>
The Face service will be more accurate if you provide more sample photos of each employee from different angles.	<input checked="" type="radio"/>	<input type="radio"/>
If an employee is wearing sunglasses, the Face service will always fail to recognize the employee.	<input type="radio"/>	<input checked="" type="radio"/>

**NEW QUESTION 186**

- (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 189**

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 or region.

**NEW QUESTION 193**

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.

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

- A. Mastered
- B. Not Mastered

**Answer:** A

**Explanation:**

Box 1: Yes

Custom Vision functionality can be divided into two features. Image classification applies one or more labels to an image. Object detection is similar, but it also returns the coordinates in the image where the applied label(s) can be found.

Box 2: Yes

The Custom Vision service uses a machine learning algorithm to analyze images. You, the developer, 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.

Box 3: No

Custom Vision service can be used only on graphic files.

**NEW QUESTION 196**

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 201**

- (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 203**

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 208**

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 210**

- (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 211**

- (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. compute
- 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 216**

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 221**

- (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 224**

- (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 225**

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 229**

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 230**

HOTSPOT - (Topic 2)

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

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

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

- A. Mastered
- B. Not Mastered

**Answer:** A

**Explanation:**

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

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

**NEW QUESTION 235**

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.	<input type="radio"/>	<input type="radio"/>
Azure Machine Learning designer enables you to save your progress as a pipeline draft.	<input type="radio"/>	<input type="radio"/>
Azure Machine Learning designer enables you to include custom JavaScript functions.	<input type="radio"/>	<input type="radio"/>

- 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 239**

DRAG DROP - (Topic 2)

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.

Learning Types	Answer Area
Classification	Learning Type Predict how many minutes late a flight will arrive basen on the amount of snowfall at an airpoint.
Clustering	Learning Type Segment customers into different groups to support a marketing department.
Regression	Learning Type Predict whether a student will complete a university course.

- A. Mastered
- B. Not Mastered

**Answer:** A

**Explanation:**

- 1- Regression
- 2- Clustering
- 3- Classification

**NEW QUESTION 244**

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  type of machine learning.

classification  
regression  
clustering

#### NEW QUESTION 245

- (Topic 1)

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

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

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

Answer: C

Explanation:

Reference:

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

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

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

#### NEW QUESTION 249

- (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 253

- (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 256

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 258**

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 262**

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**

- Anomaly detection
- Computer vision
- Machine Learning (Regression)
- Natural language processing

**Answer Area**

- Workload Type Identify handwritten letters.
- Workload Type Predict the sentiment of a social media post.
- Workload Type Identify a fraudulent credit card payment.
- Workload Type Predict next month's toy sales.

- A. Mastered
- B. Not Mastered

**Answer:** A

**Explanation:**

**Workload Types**

- Anomaly detection
- Computer vision
- Machine Learning (Regression)
- Natural language processing

**Answer Area**

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

**NEW QUESTION 263**

- (Topic 1)

You are designing an AI system that empowers everyone, including people who have hearing, visual, and other impairments. This is an example of which Microsoft guiding principle for responsible AI?

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

**Answer:** B

**Explanation:**

**Inclusiveness:** At Microsoft, we firmly believe everyone should benefit from intelligent technology, meaning it must incorporate and address a broad range of human needs and experiences. For the 1 billion people with disabilities around the world, AI technologies can be a game-changer.

Reference:

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

**NEW QUESTION 268**

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**

- Fairness
- Privacy and security
- Reliability and safety
- Transparency

**Answer Area**

- The system must not discriminate based on gender, race
- Personal data must be visible only to approve
- Automated decision-making processes must be recorded so that approved users can identify why a decision was made

- A. Mastered
- B. Not Mastered

**Answer:** A

**Explanation:**

**Principles**

- Fairness
- Privacy and security
- Reliability and safety
- Transparency

**Answer Area**

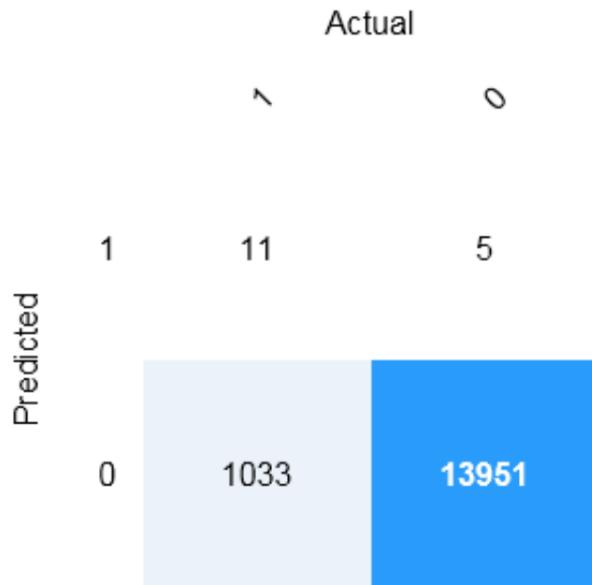
- Fairness: The system must not discriminate based on gender, race
- Privacy and security: Personal data must be visible only to approve
- Transparency: Automated decision-making processes must be recorded so that approved users can identify why a decision was made

**NEW QUESTION 270**

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 271**

- (Topic 1)

What are three Microsoft guiding principles for responsible AI? Each correct answer presents a complete solution.

NOTE: Each correct selection is worth one point.

- A. knowledgeability
- B. decisiveness
- C. inclusiveness
- D. fairness
- E. opinionatedness
- F. reliability and safety

**Answer:** CDF

**Explanation:**

Reference:

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

**NEW QUESTION 273**

- (Topic 1)

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

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

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

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

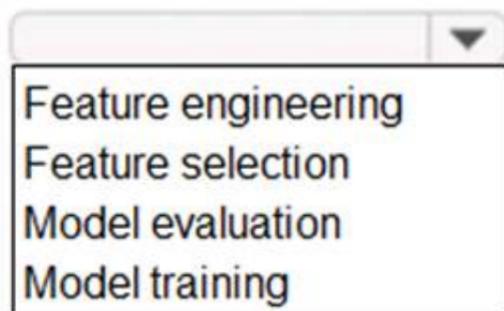
**Answer:** B

**NEW QUESTION 277**

HOTSPOT - (Topic 1)

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

**Answer Area**



A screenshot of a dropdown menu. The menu is open, showing four options: "Feature engineering", "Feature selection", "Model evaluation", and "Model training". The "Feature engineering" option is highlighted with a green dashed border.

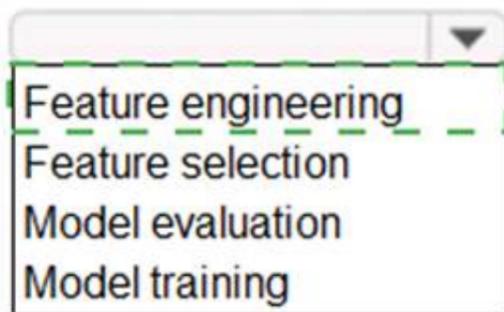
\_\_\_\_\_ is used to generate additional features.

- A. Mastered
- B. Not Mastered

**Answer:** A

**Explanation:**

**Answer Area**



A screenshot of a dropdown menu, identical to the one above. The "Feature engineering" option is highlighted with a green dashed border.

\_\_\_\_\_ is used to generate additional features.

**NEW QUESTION 281**

.....

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