

Microsoft

Exam Questions AI-900

Microsoft Azure AI Fundamentals (beta)



NEW QUESTION 1

- (Topic 5)

You use drones to identify where weeds grow between rows of crops to send an Instruction for the removal of the weeds. This is an example of which type of computer vision?

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

Answer: C

Explanation:

Object detection is similar to tagging, but the API returns the bounding box coordinates for each tag applied. For example, if an image contains a dog, cat and person, the Detect operation will list those objects together with their coordinates in the image.

Reference:

<https://docs.microsoft.com/en-us/ai-builder/object-detection-overview> <https://docs.microsoft.com/en-us/azure/cognitive-services/computer-vision/overview-ocr>
<https://docs.microsoft.com/en-us/azure/azure-video-analyzer/video-analyzer-for-media-docs/video-indexer-overview>

NEW QUESTION 2

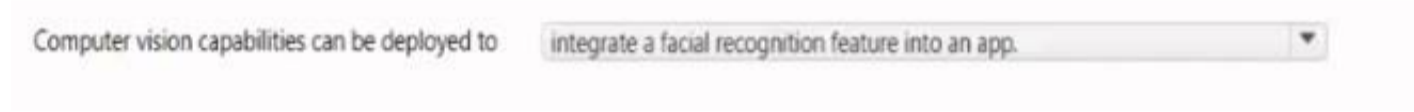
FILL IN THE BLANK - (Topic 5)

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:

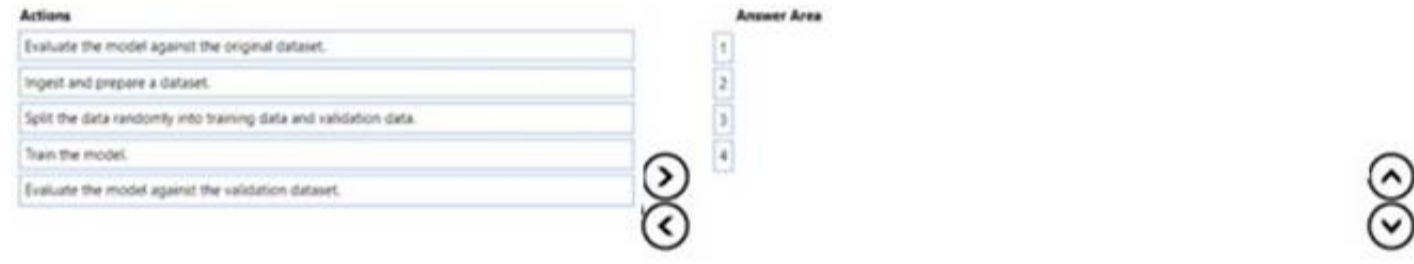


NEW QUESTION 3

DRAG DROP - (Topic 5)

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

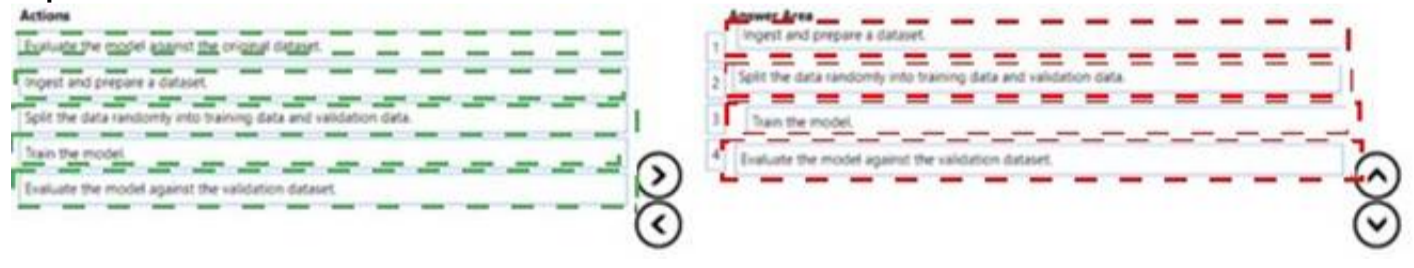
Which four actions should you perform in sequence? To answer, move the appropriate actions from the list of actions to the answer area and arrange them in the correct order.



- A. Mastered
- B. Not Mastered

Answer: A

Explanation:



NEW QUESTION 4

- (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 5

- (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 6

HOTSPOT - (Topic 5)

Select the .

Answer Area

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

- Computer Vision
- Custom Vision
- Form Recognizer
- Azure Video Analyzer for Media

- A. Mastered
- B. Not Mastered

Answer: A

Explanation:

Answer Area

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

- Computer Vision
- Custom Vision
- Form Recognizer
- Azure Video Analyzer for Media

NEW QUESTION 7

HOTSPOT - (Topic 5)

Select the answer that correctly completes the sentence.

Answer Area

Counting the number of animals in an area based on a video feed is an example of .

- computer vision.
- forecasting.
- computer vision.
- knowledge mining.
- anomaly detection.

- A. Mastered
- B. Not Mastered

Answer: A

Explanation:

Answer Area

Counting the number of animals in an area based on a video feed is an example of .

- computer vision.
- forecasting.
- computer vision.
- knowledge mining.
- anomaly detection.

NEW QUESTION 8

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.

Answer Area

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 9

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 10

DRAG DROP - (Topic 5)

Match the tool to the Azure Machine Learning task.

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

NOTE: Each correct match is worth one point.

Tools	Answer Area
Automated machine learning (automated ML)	Tool Create a Machine Learning workspace
The Azure portal	Tool Use a drag-and-drop interface used to train and deploy models
Machine Learning designer	Tool Use a wizard to select configurations for a machine learning run

- A. Mastered
- B. Not Mastered

Answer: A

Explanation:

Tools	Answer Area
Automated machine learning (automated ML)	The Azure portal Create a Machine Learning workspace
The Azure portal	Machine Learning designer Use a drag-and-drop interface used to train and deploy models
Machine Learning designer	Automated machine learning (automated ML) Use a wizard to select configurations for a machine learning run

NEW QUESTION 10

HOTSPOT - (Topic 5)

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

NOTE: Each correct selection is worth one point.

Statements

Yes **No**

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 like today?" is an example of conversational AI

- 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 like today?" is an example of conversational AI

NEW QUESTION 11

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.

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.

- 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 15

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 17

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 restaurant can use a chatbot to empower customers to make reservations by using a website or an app.	<input type="radio"/>	<input type="radio"/>
A restaurant can use a chatbot to answer inquiries about business hours from a webpage.	<input type="radio"/>	<input type="radio"/>
A restaurant can use a chatbot to automate responses to customer reviews on an external website.	<input type="radio"/>	<input type="radio"/>

- A. Mastered
- B. Not Mastered

Answer: A

Explanation:

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

NEW QUESTION 18

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 23

HOTSPOT - (Topic 5)

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

NOTE: Each correct selection is worth one point.

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

- A. Mastered
- B. Not Mastered

Answer: A

Explanation:

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

NEW QUESTION 27

HOTSPOT - (Topic 5)

Select the answer that correctly completes the sentence.

Answer Area

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

a computer vision workload.
a knowledge mining workload.
a natural language processing (NLP) workload.
an anomaly detection workload.

Answer selections

- A. Mastered
- B. Not Mastered

Answer: A

Explanation:

Answer Area

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

a computer vision workload.
a knowledge mining workload.
a natural language processing (NLP) workload.
an anomaly detection workload.

Answer selections

NEW QUESTION 32

- (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 37

- (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 39

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 43

HOTSPOT - (Topic 5)

Select the answer that correctly completes the sentence

Answer Area

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

- A. Mastered
- B. Not Mastered

Answer: A

Explanation:

Answer Area

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

NEW QUESTION 46

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

- A. Mastered
- B. Not Mastered

Answer: A

NEW QUESTION 50

DRAG DROP - (Topic 5)

Match the Azure Cognitive Services to the appropriate AI workloads.

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

NOTE: Each correct match is worth one point.

Services	Answer Area
<input type="text" value="Custom Vision"/> <input type="text" value="Face"/> <input type="text" value="Form Recognizer"/>	<input type="text"/> <input type="text"/> <input type="text"/>
	Identify objects in an image. Automatically import data from an invoice to a database. Identify people in an image.

- A. Mastered
- B. Not Mastered

Answer: A

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
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 checked="" type="radio"/>	<input type="radio"/>
A restaurant can use a chatbot to automate responses to customer reviews on an external website.	<input checked="" type="radio"/>	<input type="radio"/>

NEW QUESTION 56

- (Topic 5)

You have an AI-based loan approval system.

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

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

Answer: C

NEW QUESTION 61

HOTSPOT - (Topic 5)

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

Answer Area

An AI solution that helps photographers take better portrait photographs by providing feedback on exposure, noise, and occlusion is an example of facial

detection. ▾

analysis.

detection.

recognition.

- A. Mastered
- B. Not Mastered

Answer: A

Explanation:

Answer Area

An AI solution that helps photographers take better portrait photographs by providing feedback on exposure, noise, and occlusion is an example of facial

detection. ▾

analysis.

detection.

recognition.

NEW QUESTION 65

- (Topic 5)

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

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

Answer: C

NEW QUESTION 67

- (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 69

- (Topic 5)

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

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

Answer: A

NEW QUESTION 72

- (Topic 5)

You have a custom question answering solution.

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

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

Answer: B

NEW QUESTION 76

- (Topic 5)

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

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

Answer: C

NEW QUESTION 81

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 84

- (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 87

HOTSPOT - (Topic 5)

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

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

▼

anomaly detection.

computer vision.

conversational AI.

forecasting.

- A. Mastered
- B. Not Mastered

Answer: A

Explanation:

With Microsoft's Conversational AI tools developers can build, connect, deploy, and manage intelligent bots that naturally interact with their users on a website, app, Cortana, Microsoft Teams, Skype, Facebook Messenger, Slack, and more.

NEW QUESTION 92

- (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 93

- (Topic 5)

Which statement is an example of a Microsoft responsible AI principle?

- A. AI systems must use only publicly available data.
- B. AI systems must protect the interests of the company
- C. AI systems must be understandable.

D. AI systems must keep personal details public

Answer: C

NEW QUESTION 97

- (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 100

HOTSPOT - (Topic 5)

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

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

- A. Mastered
- B. Not Mastered

Answer: A

Explanation:

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

NEW QUESTION 104

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="checkbox"/>	<input type="checkbox"/>
You can communicate with a bot by using Microsoft Teams.	<input type="checkbox"/>	<input type="checkbox"/>
You can communicate with a bot by using a webchat interface.	<input type="checkbox"/>	<input type="checkbox"/>

- 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 106

- (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 110

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 111

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.	<input type="radio"/>	<input type="radio"/>
You can use the Text Analytics service to extract key entities from a call transcript.	<input type="radio"/>	<input type="radio"/>
You can use the Speech service to translate the audio of a call to a different language.	<input type="radio"/>	<input type="radio"/>

- 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.	<input checked="" type="radio"/>	<input type="radio"/>
You can use the Text Analytics service to extract key entities from a call transcript.	<input checked="" type="radio"/>	<input type="radio"/>
You can use the Speech service to translate the audio of a call to a different language.	<input checked="" type="radio"/>	<input type="radio"/>

NEW QUESTION 112

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 116

- (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 121

- (Topic 4)

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

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

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

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

Answer: B

Explanation:

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

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

NEW QUESTION 123

- (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 127

- (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 132

- (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 137

- (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 138

- (Topic 4)

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

NOTE: Each correct selection is worth one point.

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

Answer: AD

Explanation:

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

Reference:

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

NEW QUESTION 139

DRAG DROP - (Topic 4)

Match the types of natural languages processing workloads to the appropriate scenarios.

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

NOTE: Each correct selection is worth one point.

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

- A. Mastered
- B. Not Mastered

Answer: A

Explanation:

Box 1: Entity recognition

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

Box 2: Sentiment analysis

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

Box 3: Translation

Using Microsoft's Translator text API

This versatile API from Microsoft can be used for the following: Translate text from one language to another.
 Transliterate text from one script to another. Detecting language of the input text.
 Find alternate translations to specific text. Determine the sentence length.

NEW QUESTION 144

- (Topic 4)

You have insurance claim reports that are stored as text.

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

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

Answer: C

Explanation:

Key phrase extraction is the concept of evaluating the text of a document, or documents, and then identifying the main talking points of the document(s).

Key phrase extraction is a part of Text Analytics. The Text Analytics service is a part of the Azure Cognitive Services offerings that can perform advanced natural language processing over raw text.

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

NEW QUESTION 147

- (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:

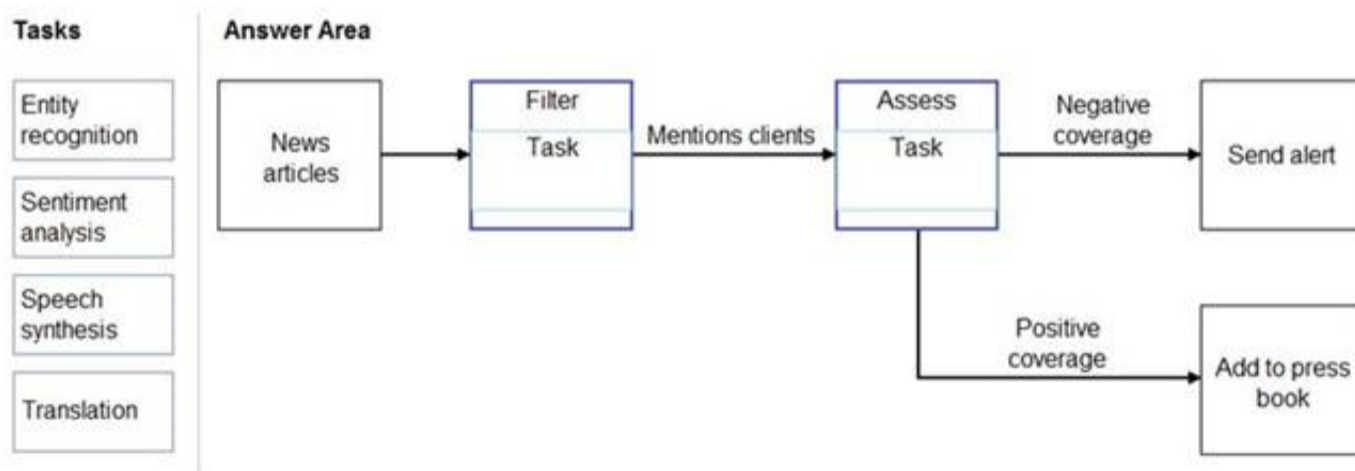
<https://azure.microsoft.com/en-us/services/cognitive-services/text-to-speech/#features>

NEW QUESTION 150

DRAG DROP - (Topic 4)

You need to scan the news for articles about your customers and alert employees when there is a negative article. Positive articles must be added to a press book. Which natural language processing tasks should you use to complete the process? To answer, drag the appropriate tasks to the correct locations. Each task may be used once, more than once, or not at all. You may need to drag the split bar between panes or scroll to view content.

NOTE: Each correct selection is worth one point.



- A. Mastered
- B. Not Mastered

Answer: A

Explanation:

Box 1: Entity recognition

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

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

- ? Which companies were mentioned in a news article?
- ? Does a tweet contain the name of a person? Does the tweet also provide his current location?
- ? Were specified products mentioned in complaints or reviews?

Box 2: Sentiment Analysis

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

NEW QUESTION 154

- (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 156

- (Topic 3)

What is a use case for classification?

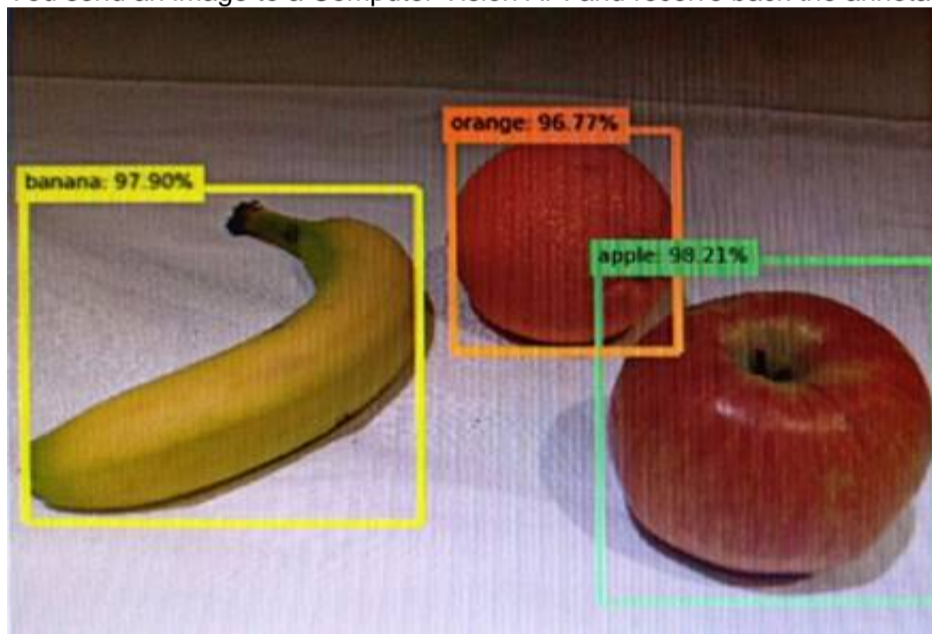
- A. predicting how many cups of coffee a person will drink based on how many hours the person slept the previous night.
- B. analyzing the contents of images and grouping images that have similar colors
- C. predicting whether someone uses a bicycle to travel to work based on the distance from home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

Answer: D

NEW QUESTION 160

- (Topic 3)

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



Which type of computer vision was used?

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

Answer: A

Explanation:

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

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

Reference:

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

NEW QUESTION 163

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 164

DRAG DROP - (Topic 2)

Match the machine learning tasks to the appropriate scenarios.

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

NOTE: Each correct selection is worth one point.

Learning Types	Answer Area
Feature engineering	Task Examining the values of a confusion matrix
Feature selection	Task Splitting a date into month, day, and year fields
Model deployment	Task Picking temperature and pressure to train a weather model
Model evaluation	
Model training	

- A. Mastered
- B. Not Mastered

Answer: A

Explanation:

Box 1: Model evaluation

The Model evaluation module outputs a confusion matrix showing the number of true positives, false negatives, false positives, and true negatives, as well as ROC, Precision/Recall, and Lift curves.

Box 2: Feature engineering

Feature engineering is the process of using domain knowledge of the data to create features that help ML algorithms learn better. In Azure Machine Learning, scaling and normalization techniques are applied to facilitate feature engineering. Collectively, these techniques and feature engineering are referred to as featurization.

Note: Often, features are created from raw data through a process of feature engineering. For example, a time stamp in itself might not be useful for modeling until the information is transformed into units of days, months, or categories that are relevant to the problem, such as holiday versus working day.

Box 3: Feature selection

In machine learning and statistics, feature selection is the process of selecting a subset of relevant, useful features to use in building an analytical model. Feature selection helps narrow the field of data to the most valuable inputs. Narrowing the field of data helps reduce noise and improve training performance.

NEW QUESTION 169

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 173

HOTSPOT - (Topic 2)

You have the following dataset.

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

You plan to use the dataset to train a model that will predict the house price categories of houses.

What are Household Income and House Price Category? To answer, select the appropriate option in the answer area.

NOTE: Each correct selection is worth one point.

Answer Area

Household Income:

A feature

A label

House Price Category:

A feature

A label

- A. Mastered
- B. Not Mastered

Answer: A

Explanation:

Box 1: A feature Box 2: A label

NEW QUESTION 176

- (Topic 2)

A medical research project uses a large anonymized dataset of brain scan images that are categorized into predefined brain haemorrhage types.

You need to use machine learning to support early detection of the different brain haemorrhage types in the images before the images are reviewed by a person.

This is an example of which type of machine learning?

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

Answer: C

Explanation:

Reference:

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

NEW QUESTION 180

- (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 182

HOTSPOT - (Topic 2)

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

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

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

- A. Mastered
- B. Not Mastered

Answer: A

Explanation:

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

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

NEW QUESTION 186

- (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 187

- (Topic 2)

Which metric can you use to evaluate a classification model?

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

Answer: A

Explanation:

What does a good model look like?

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

Reference:

<https://docs.microsoft.com/en-us/azure/machine-learning/how-to-understand-automated-ml#classification>

NEW QUESTION 191

- (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 194

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 197

- (Topic 2)

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

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

Answer: C

Explanation:

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

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

Reference:

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

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

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

NEW QUESTION 200

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

- Classification
- Clustering
- Regression

Answer Area

- Learning Type Predict how many minutes late a flight will arrive basen on the amount of snowfall at an airpoint.
- Learning Type Segment customers into different groups to support a marketing department.
- 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 204

- (Topic 2)

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

- A. to train the model twice to attain better accuracy
- B. to train multiple models simultaneously to attain better performance
- C. to test the model by using data that was not used to train the model

Answer: C

Explanation:

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

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

NEW QUESTION 209

DRAG DROP - (Topic 2)

You need to use Azure Machine Learning designer to build a model that will predict automobile prices.

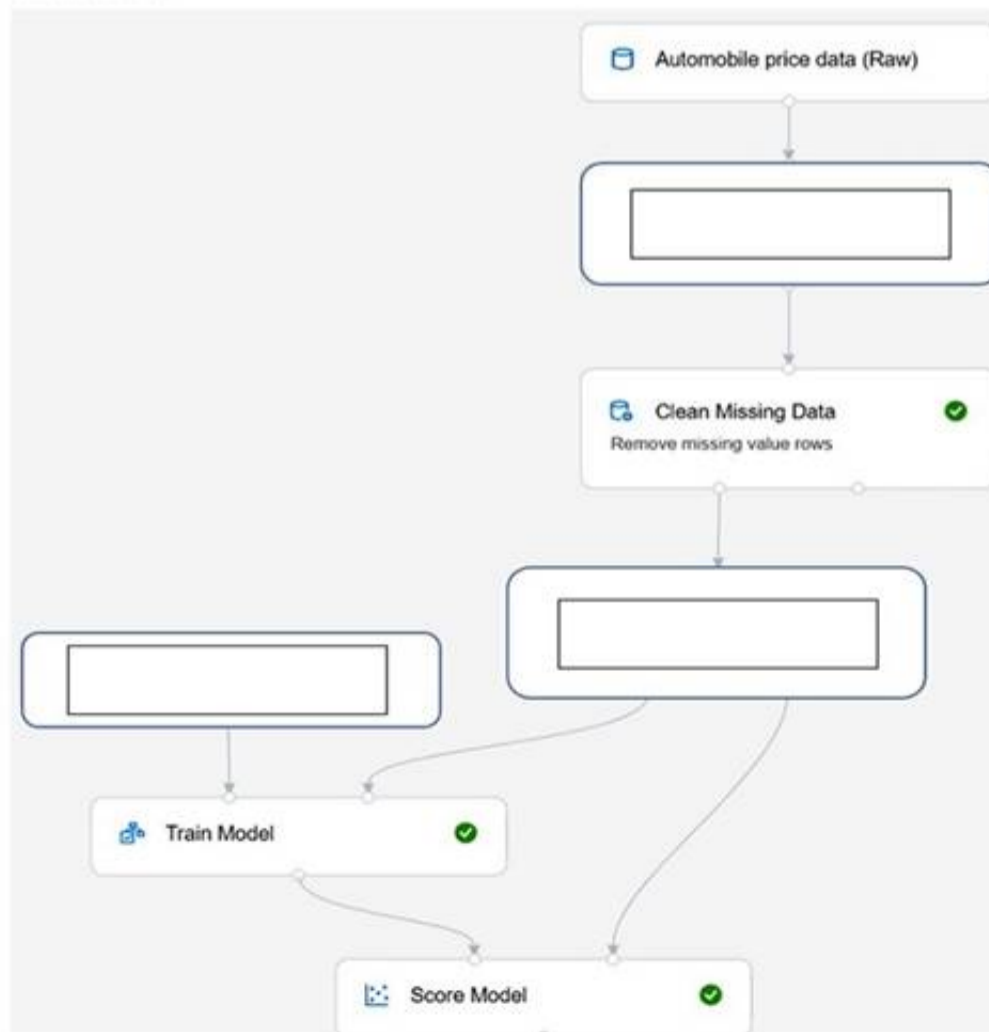
Which type of modules should you use to complete the model? To answer, drag the appropriate modules to the correct locations. Each module may be used once, more than once, or not at all. You may need to drag the split bar between panes or scroll to view content.

NOTE: Each correct selection is worth one point.

Modules

- Convert to CSV
- K-Means Clustering
- Linear Regression
- Split Data
- Select Columns in Dataset
- Summarize Data

Answer Area



- A. Mastered
- B. Not Mastered

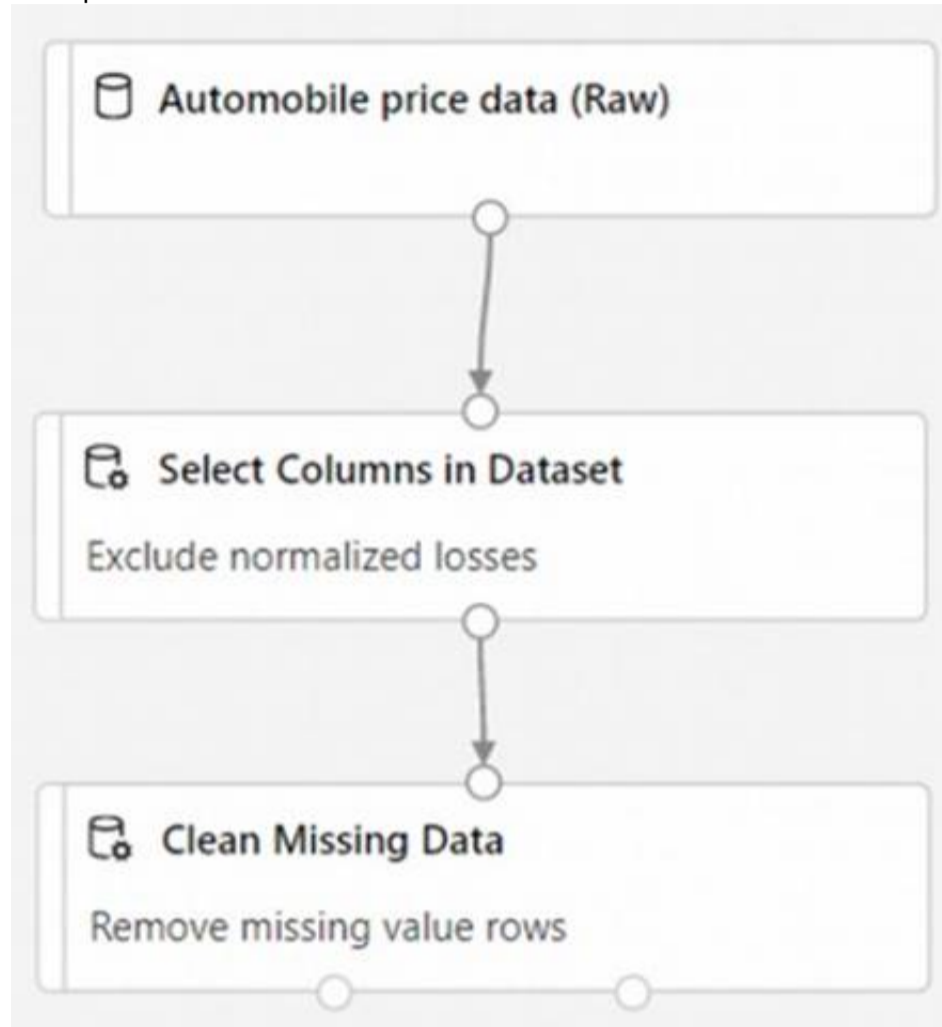
Answer: A

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 213

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 217

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 220

HOTSPOT - (Topic 1)

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

Answer Area

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

image classification.

object detection.

optical character recognizer (OCR).

semantic segmentation.

- A. Mastered
- B. Not Mastered

Answer: A

Explanation:

Answer Area

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

image classification.
▼

object detection.
▶

optical character recognizer (OCR).
▶

semantic segmentation.
▶

NEW QUESTION 225

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 229

- (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 233

DRAG DROP - (Topic 1)

Match the principles of responsible AI to appropriate requirements.

To answer, drag the appropriate principles from the column on the left to its requirement on the right. Each principle may be used once, more than once, or not at all. You may need to drag the split bar between panes or scroll to view content.

NOTE: Each correct selection is worth one point.

Principles	Answer Area
Fairness	<input type="text"/>
Privacy and security	<input type="text"/>
Reliability and safety	<input type="text"/>
Transparency	<input type="text"/>

<input type="text"/>	The system must not discriminate based on gender, race
<input type="text"/>	Personal data must be visible only to approve
<input type="text"/>	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	Answer Area
Fairness	<input type="text"/>
Privacy and security	<input type="text"/>
Reliability and safety	<input type="text"/>
Transparency	<input type="text"/>

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

NEW QUESTION 235

- (Topic 1)

You build a machine learning model by using the automated machine learning user interface (UI).

You need to ensure that the model meets the Microsoft transparency principle for responsible AI.

What should you do?

- A. Set Validation type to Auto.
- B. Enable Explain best model.
- C. Set Primary metric to accuracy.
- D. Set Max concurrent iterations to 0.

Answer: B

Explanation:

Model Explain Ability.

Most businesses run on trust and being able to open the ML “black box” helps build transparency and trust. In heavily regulated industries like healthcare and banking, it is critical to comply with regulations and best practices. One key aspect of this is understanding the relationship between input variables (features) and model output. Knowing both the magnitude and direction of the impact each feature (feature importance) has on the predicted value helps better understand and explain the model. With model explain ability, we enable you to understand feature importance as part of automated ML runs.

Reference:

<https://azure.microsoft.com/en-us/blog/new-automated-machine-learning-capabilities-in-azure-machine-learning-service/>

NEW QUESTION 236

DRAG DROP - (Topic 1)

Match the types of AI workloads to the appropriate scenarios.

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

NOTE: Each correct selection is worth one point.

Workloads Types	Answer Area
Anomaly detection	<input type="text"/>
Computer vision	<input type="text"/>
Conversational AI	<input type="text"/>
Knowledge mining	<input type="text"/>
Natural language processing	<input type="text"/>

<input type="text"/>	An automated chat to answer questions about refunds and exchange
<input type="text"/>	Determining whether a photo contains a person
<input type="text"/>	Determining whether a review is positive or negative

- A. Mastered
- B. Not Mastered

Answer: A

Explanation:

Box 3: Natural language processing

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

NEW QUESTION 241

- (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:

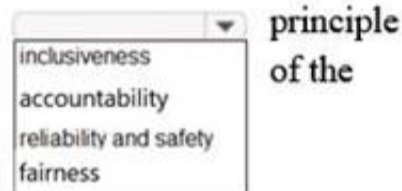
<https://docs.microsoft.com/en-us/learn/modules/responsible-ai-principles/4-guiding-principles>

NEW QUESTION 245

HOTSPOT - (Topic 1)

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

When developing an AI system for self-driving cars, the Microsoft principle for responsible AI should be applied to ensure consistent operation of the system during unexpected circumstances.



- A. Mastered
- B. Not Mastered

Answer: A

Explanation:

Reliability and safety: To build trust, it's critical that AI systems operate reliably, safely, and consistently under normal circumstances and in unexpected conditions. These systems should be able to operate as they were originally designed, respond safely to unanticipated conditions, and resist harmful manipulation.

NEW QUESTION 249

- (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 253

- (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 257

- (Topic 1)

You are building an AI-based app.

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

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

NOTE: Each correct selection is worth one point.

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

Answer: BC

Explanation:

Reference:

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

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

NEW QUESTION 259

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