



Microsoft

Exam Questions AI-900

Microsoft Azure AI Fundamentals (beta)

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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

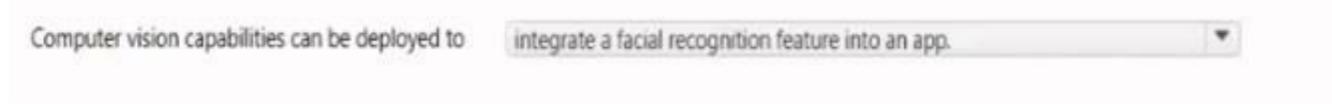
FILL IN THE BLANK - (Topic 5)

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:

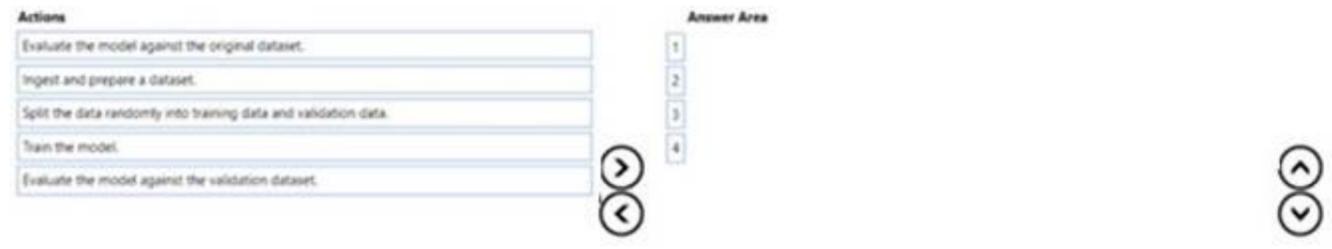


NEW QUESTION 3

DRAG DROP - (Topic 5)

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

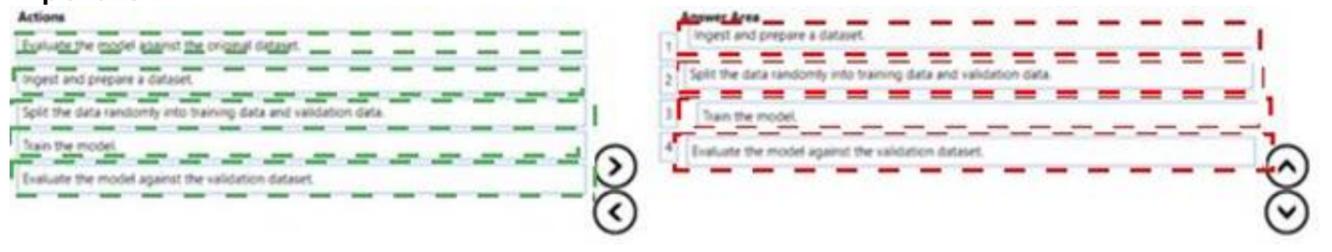
Which four actions should you perform in sequence? To answer, move the appropriate actions from the list of actions to the answer area and arrange them in the correct order.



- A. Mastered
- B. Not Mastered

Answer: A

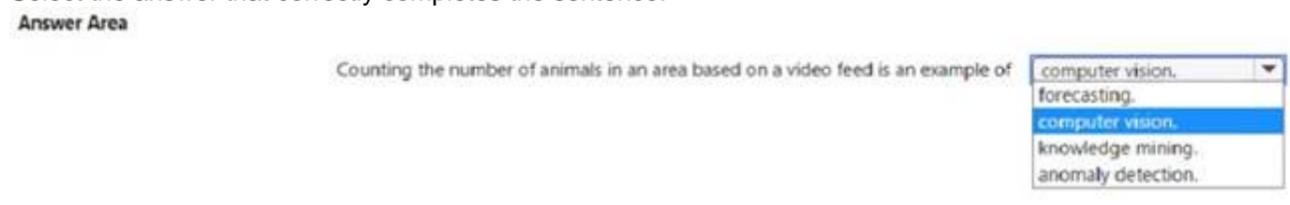
Explanation:



NEW QUESTION 4

HOTSPOT - (Topic 5)

Select the answer that correctly completes the sentence.



- 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 5

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 6

HOTSPOT - (Topic 5)

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

NOTE: Each correct selection is worth one point.

Statements	Yes	No
A 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 7

- (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 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 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 9

- (Topic 5)

You need to create a customer support solution to help customers access information. The solution must support email, phone, and live chat channels. Which type of AI solution should you use?

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

Answer: D

NEW QUESTION 10

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 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
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 12

HOTSPOT - (Topic 5)

Select the answer that correctly completes the sentence.

Answer Area

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

- AUC metric
- confusion matrix**
- ROC curve
- threshold

- A. Mastered
- B. Not Mastered

Answer: A

Explanation:

Answer Area

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

- AUC metric
- confusion matrix**
- ROC curve
- threshold

NEW QUESTION 15

- (Topic 5)

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

Which service should you use?

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

Answer: B

Explanation:

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

Reference:

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

NEW QUESTION 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 22

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
Chatbots can support voice input.	<input type="radio"/>	<input type="radio"/>
A separate chatbot is required for each communication channel.	<input type="radio"/>	<input type="radio"/>
Chatbots manage conversation flows by using a combination of natural language and constrained option responses.	<input type="radio"/>	<input type="radio"/>

- A. Mastered
- B. Not Mastered

Answer: A

Explanation:

Statements	Yes	No
Chatbots can support voice input.	<input type="radio"/>	<input checked="" type="radio"/>
A separate chatbot is required for each communication channel.	<input type="radio"/>	<input checked="" type="radio"/>
Chatbots manage conversation flows by using a combination of natural language and constrained option responses.	<input checked="" type="radio"/>	<input type="radio"/>

NEW QUESTION 23

- (Topic 5)

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

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

Answer: C

NEW QUESTION 24

- (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 27

HOTSPOT - (Topic 5)

Select the answer that correctly completes the sentence.

Answer Area

A banking system that predicts whether a loan will be repaid
 is an example of the classification 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 28

- (Topic 5)

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

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

Answer: A

NEW QUESTION 33

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 35

HOTSPOT - (Topic 5)

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

NOTE: Each correct selection is worth one point.

Answer Area

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

- A. Mastered
- B. Not Mastered

Answer: A

Explanation:

Answer Area

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

NEW QUESTION 40

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 45

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 48

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 53

- (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 57

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 60

HOTSPOT - (Topic 5)

Select the answer that correctly completes the sentence.

Answer Area

Regression
Classification
Clustering
Regression

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

- A. Mastered
- B. Not Mastered

Answer: A

Explanation:

Answer Area

Regression
Classification
Clustering
Regression

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

NEW QUESTION 64

- (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 66

HOTSPOT - (Topic 5)

Select the answer that correctly completes the sentence.

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:

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.

NEW QUESTION 69

- (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 71

HOTSPOT - (Topic 5)

Select the answer that correctly completes the sentence.

Answer Area

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

labels.
 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

labels.
 features.
 functions.
labels.
 instances.

NEW QUESTION 74

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 79

- (Topic 5)

You have a natural language processing (NLP) model that was created by using data obtained without permission. Which Microsoft principle for responsible AI does this breach?

- A. privacy and security
- B. inclusiveness
- C. transparency
- D. reliability and safety

Answer: C

NEW QUESTION 83

DRAG DROP - (Topic 5)

Match the Azure Cognitive Services service to the appropriate actions.

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

NOTE: Each correct match is worth one point.

Services	Answer Area
Speech	<input type="text"/> Convert a user's speech to text.
Language service	<input type="text"/> Identify a user's intent.
Translator Text	<input type="text"/> Provide a spoken response to the user.

- A. Mastered
- B. Not Mastered

Answer: A

Explanation:

Services	Answer Area
Speech	Speech Convert a user's speech to text.
Language service	Language service Identify a user's intent.
Translator Text	Speech Provide a spoken response to the user.

NEW QUESTION 88

HOTSPOT - (Topic 5)

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

NOTE; Each correct selection is worth one point.

Answer Area

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

- A. Mastered
- B. Not Mastered

Answer: A

Explanation:

Answer Area

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

NEW QUESTION 93

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 96

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 101

- (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 106

HOTSPOT - (Topic 5)

Select the answer that correctly completes the sentence.

Azure Machine Learning designer lets you create machine learning models by

adding and connecting modules on a visual canvas.

adding and connecting modules on a visual canvas.

automatically performing common data preparation tasks.

automatically selecting an algorithm to build the most accurate model.

using a code-first notebook experience.

- A. Mastered
- B. Not Mastered

Answer: A

Explanation:

Azure Machine Learning designer lets you create machine learning models by

adding and connecting modules on a visual canvas.

adding and connecting modules on a visual canvas.

automatically performing common data preparation tasks.

automatically selecting an algorithm to build the most accurate model.

using a code-first notebook experience.

NEW QUESTION 107

FILL IN THE BLANK - (Topic 5)

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

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

- A. Mastered
- B. Not Mastered

Answer: A

Explanation:

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

classification.

NEW QUESTION 112

- (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 114

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 117

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 118

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 120

- (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 124

HOTSPOT - (Topic 4)

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

NOTE: Each correct selection is worth one point.

Statements	Yes	No
You can use the Translator service to translate text between languages.	<input type="radio"/>	<input type="radio"/>
You can use the Translator service to detect the language of a given text.	<input type="radio"/>	<input type="radio"/>
You can use the Translator service to transcribe audible speech into text.	<input type="radio"/>	<input type="radio"/>

- A. Mastered
- B. Not Mastered

Answer: A

Explanation:

The translator service provides multi-language support for text translation, transliteration, language detection, and dictionaries. Speech-to-Text, also known as automatic speech recognition (ASR), is a feature of Speech Services that provides transcription.

NEW QUESTION 128

- (Topic 4)

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

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



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

Which type of natural languages processing was performed?

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

Answer: A

Explanation:

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

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

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

NEW QUESTION 131

- (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 133

DRAG DROP - (Topic 4)

You plan to apply Text Analytics API features to a technical support ticketing system.

Match the Text Analytics API features to the appropriate natural language processing scenarios.

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

NOTE: Each correct selection is worth one point.

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

- A. Mastered
- B. Not Mastered

Answer: A

Explanation:

Box1: Sentiment analysis

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

Box 2: Broad entity extraction

Broad entity extraction: Identify important concepts in text, including key

Key phrase extraction/ Broad entity extraction: Identify important concepts in text, including key phrases and named entities such as people, places, and organizations.

Box 3: Entity Recognition

Named Entity Recognition: Identify and categorize entities in your text as people, places, organizations, date/time, quantities, percentages, currencies, and more.

Well-known entities are also recognized and linked to more information on the web.

NEW QUESTION 137

HOTSPOT - (Topic 4)

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

NOTE: Each correct selection is worth one point.

Answer Area

Statements	Yes	No
Monitoring online service reviews for profanities is an example of natural language processing.	<input type="radio"/>	<input type="radio"/>
Identifying brand logos in an image is an example of natural languages processing.	<input type="radio"/>	<input type="radio"/>
Monitoring public news sites for negative mentions of a product is an example of natural language processing.	<input type="radio"/>	<input type="radio"/>

- A. Mastered
- B. Not Mastered

Answer: A

Explanation:

Box 1: Yes

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

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

Box 2: No

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

Box 3: Yes

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

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

NEW QUESTION 141

- (Topic 4)

You are developing a Chabot solution in Azure.

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

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

Answer: B

Explanation:

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

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

Reference:

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

NEW QUESTION 142

- (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 147

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 150

- (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 154

- (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:

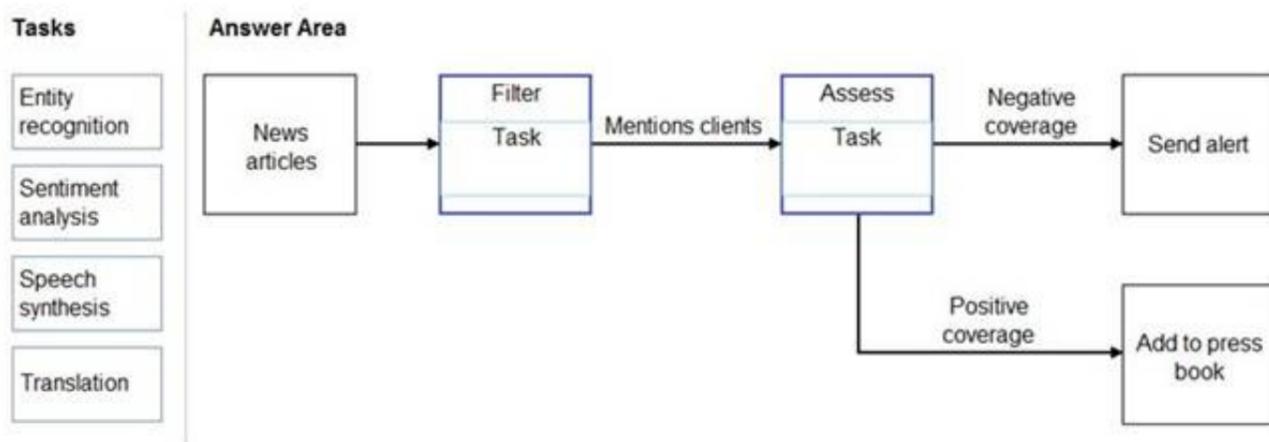
<https://azure.microsoft.com/en-us/services/cognitive-services/text-to-speech/#features>

NEW QUESTION 156

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 157

- (Topic 3)

You need to determine the location of cars in an image so that you can estimate the distance between the cars. Which type of computer vision should you use?

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

Answer: B

Explanation:

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

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

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

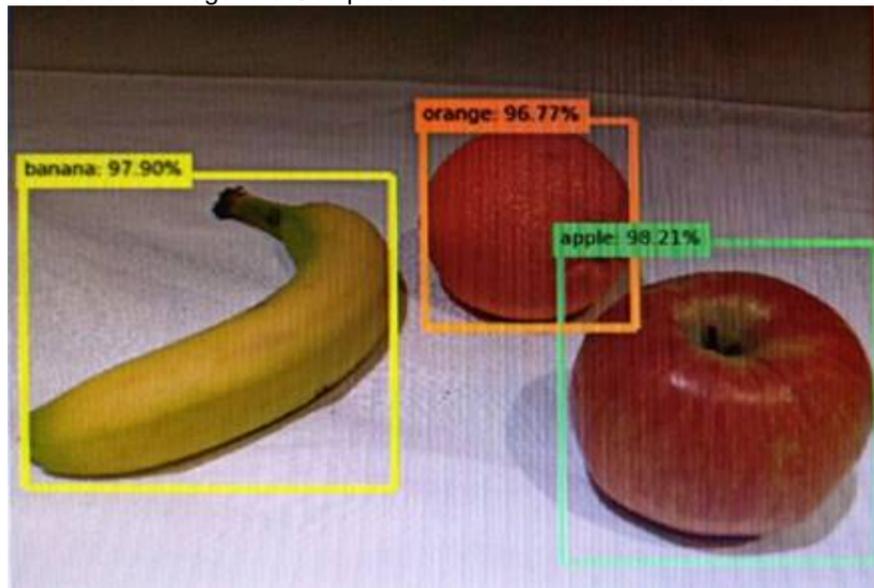
Reference:

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

NEW QUESTION 161

- (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 166

- (Topic 3)

You need to develop a mobile app for employees to scan and store their expenses while travelling.

Which type of computer vision should you use?

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

Answer: D

Explanation:

Azure's Computer Vision API includes Optical Character Recognition (OCR) capabilities that extract printed or handwritten text from images. You can extract text

from images, such as photos of license plates or containers with serial numbers, as well as from documents - invoices, bills, financial reports, articles, and more.

Reference:

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

NEW QUESTION 170

- (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 173

- (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

- (Topic 2)

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

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

Answer: B

NEW QUESTION 180

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 185

- (Topic 3)

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

Which type of AI workload should the company use?

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

Answer: C

Explanation:

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

Reference:

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

NEW QUESTION 188

DRAG DROP - (Topic 3)

Match the types of computer vision to the appropriate scenarios.

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

NOTE: Each correct selection is worth one point.

Workloads Types

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

Answer Area

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

- A. Mastered
- B. Not Mastered

Answer: A

Explanation:

Box 1: Facial recognition

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

Box 2: OCR

Box 3: Objection detection

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

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

NEW QUESTION 193

HOTSPOT - (Topic 2)

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

Answer Area

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

- Custom Vision
- Form Recognizer
- Ink Recognizer
- Text Analytics

- A. Mastered
- B. Not Mastered

Answer: A

Explanation:

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

NEW QUESTION 196

HOTSPOT - (Topic 2)

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

Answer Area

Azure Machine Learning designer lets you create machine learning models by

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

- A. Mastered
- B. Not Mastered

Answer: A

Explanation:

Answer Area

Azure Machine Learning designer lets you create machine learning models by

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

NEW QUESTION 197

HOTSPOT - (Topic 2)

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

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

- classification.
- clustering.
- regression.

- A. Mastered
- B. Not Mastered

Answer: A

Explanation:

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

NEW QUESTION 199

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 204

HOTSPOT - (Topic 2)

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

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

- Classification
- Clustering
- Regression

- A. Mastered
- B. Not Mastered

Answer: A

Explanation:

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

NEW QUESTION 206

- (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

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 216

HOTSPOT - (Topic 2)

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

NOTE: Each correct selection is worth one point.

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

- A. Mastered
- B. Not Mastered

Answer: A

Explanation:

Box 1: No

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

Box 2: Yes

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

Box 3: No

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

NEW QUESTION 221

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 224

- (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 225

- (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 229

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.

	▼
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 232

- (Topic 2)

Which type of machine learning should you use to identify groups of people who have similar purchasing habits?

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

Answer: C

Explanation:

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

Reference:

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

NEW QUESTION 236

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
<input type="text" value="Classification"/>	<input type="text" value="Learning Type"/> Predict how many minutes late a flight will arrive basen on the amount of snowfall at an airpoint.
<input type="text" value="Clustering"/>	<input type="text" value="Learning Type"/> Segment customers into different groups to support a marketing department.
<input type="text" value="Regression"/>	<input type="text" value="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 241

HOTSPOT - (Topic 2)

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

NOTE: Each correct selection is worth one point.

Answer Area

Statements	Yes	No
Automated machine learning is the process of automating the time-consuming, iterative tasks of machine learning model development.	<input type="radio"/>	<input type="radio"/>
Automated machine learning can automatically infer the training data from the use case provided.	<input type="radio"/>	<input type="radio"/>
Automated machine learning works by running multiple training iterations that are scored and ranked by the metrics you specify.	<input type="radio"/>	<input type="radio"/>
Automated machine learning enables you to specify a dataset and will automatically understand which label to predict.	<input type="radio"/>	<input type="radio"/>

- A. Mastered
- B. Not Mastered

Answer: A

Explanation:

Box 1: Yes

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

Box 2: No

Box 3: Yes

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

Box 4: No

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

NEW QUESTION 243

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 244

DRAG DROP - (Topic 1)

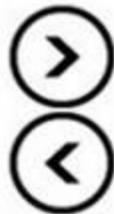
You plan to deploy an Azure Machine Learning model as a service that will be used by client applications.

Which three processes should you perform in sequence before you deploy the model? To answer, move the appropriate processes from the list of processes to the answer area and arrange them in the correct order.

Processes

Answer Area

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



- A. Mastered
- B. Not Mastered

Answer: A

Explanation:

Processes

Answer Area

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



- data preparation
- model training
- model evaluation

NEW QUESTION 245

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.

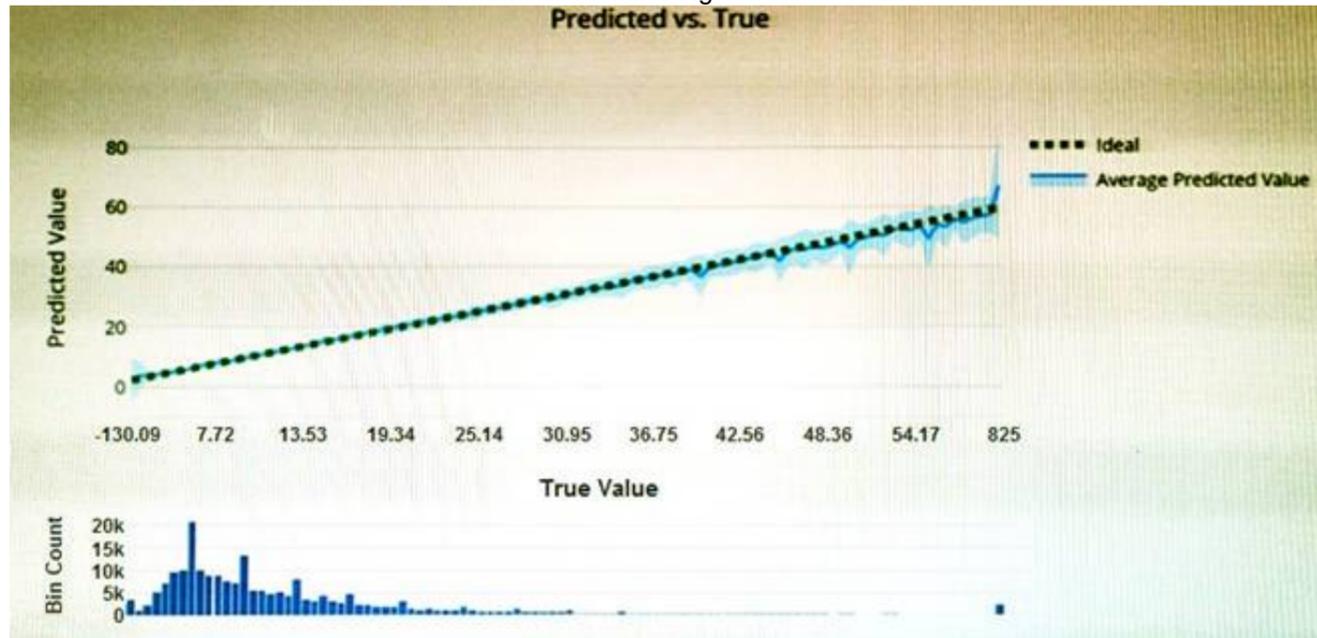
Box 3: No

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 246

- (Topic 2)

You have the Predicted vs. True chart shown in the following exhibit.



Which type of model is the chart used to evaluate?

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

Answer: B

Explanation:

What is a Predicted vs. True chart?

Predicted vs. True shows the relationship between a predicted value and its correlating true value for a regression problem. This graph can be used to measure performance of a model as the closer to the $y=x$ line the predicted values are, the better the accuracy of a predictive model.

Reference:

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

NEW QUESTION 250

- (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 254

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

A. Mastered

B. Not Mastered

Answer: A

Explanation:

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

NEW QUESTION 255

DRAG DROP - (Topic 1)

Match the Microsoft guiding principles for responsible AI to the appropriate descriptions.

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

NOTE: Each correct selection is worth one point.

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

A. Mastered

B. Not Mastered

Answer: A

Explanation:

Box 1: Reliability and safety

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

Box 2: accountability

Box 3: Privacy and security

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

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

NEW QUESTION 256

DRAG DROP - (Topic 1)

Match the types of AI workloads to the appropriate scenarios.

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

NOTE: Each correct selection is worth one point.

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

A. Mastered

B. Not Mastered

Answer: A

Explanation:

Box 3: Natural language processing

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

NEW QUESTION 257

HOTSPOT - (Topic 1)

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

According to Microsoft's

	▼
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:

According to Microsoft's

	▼
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 262

- (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 266

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