Number: AI-900 Passing Score: 800 Time Limit: 120 File Version: 5.0

Exam Code: AI-900
Exam Name: Microsoft Azure AI Fundamentals



Exam A **QUESTION 1 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. **Hot Area: Answer Area** Yes No Statements You can use the Speech service to transcribe a call to text. 0 You can use the Text Analytics service to extract key entities from a 0 0 call transcript. You can use the Speech service to translate the audio of a call to a different language. **Answer Area: Answer Area** Statements Yes No You can use the Speech service to transcribe a call to text. You can use the Text Analytics service to extract key entities from a 0 call transcript. You can use the Speech service to translate the audio of a call to a different language.

Section:

Explanation:

Reference:

https://docs.microsoft.com/en-gb/azure/cognitive-services/text-analytics/overview

https://azure.microsoft.com/en-gb/services/cognitive-services/speech-services/

QUESTION 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.

Hot Area:

Inswer Area		
.com Statements	Yes	No
zure Bot Service and Azure Congnitive Services can be integrated.	0	0
zure Bot Service engages with customers in a conversational manner.	0	0
zure Bot Service can import frequently asked questions (FAQ) to question answer sets.	n O	0

Answer Area:

Answer Area	10	d
.com Statements	Yes	No Umps
Azure Bot Service and Azure Congnitive Services can be integrated.	0	0
Azure Bot Service engages with customers in a conversational manner.	0	O
Azure Bot Service can import frequently asked questions (FAQ) to question and answer sets.	CEp	lus

Section:

Explanation:

Box 1: Yes

Azure bot service can be integrated with the powerful AI capabilities with Azure Cognitive Services.

Box 2: Yes

Azure bot service engages with customers in a conversational manner.

Box 3: No

The QnA Maker service creates knowledge base, not question and answers sets.

Note: You can use the QnA Maker service and a knowledge base to add question-and-answer support to your bot. When you create your knowledge base, you seed it with questions and answers. Reference:

https://docs.microsoft.com/en-us/azure/bot-service/bot-builder-tutorial-add-qna

QUESTION 3

DRAG DROP

Match the tool to the Azure Machine Learning task.

Explanation:

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.

Select and Place: Tools Automated machine learning Tool Create a Machine Learning workspace (automated ML) Tool The Azure portal Use a drag-and-drop interface used to train and deploy models Use a wizard to select configurations for a machine learning run Tool Machine Learning designer **Correct Answer:** Tools The Azure portal Create a Machine Learning workspace Machine Learning designer Use a drag-and-drop interface used to train and deploy models Use a wizard to select configurations for a machine learning run Automated machine learning (automated ML) Section: **Explanation: U**-dumps **QUESTION 4 HOTSPOT** Select the answer that correctly completes the sentence. Hot 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. **Answer Area:** Answer Area Natural language processing can be used to predict the number of future car rentals. predict which website visitors will make a transaction. top a process in a factory when extremely high temperatures are registered Section:

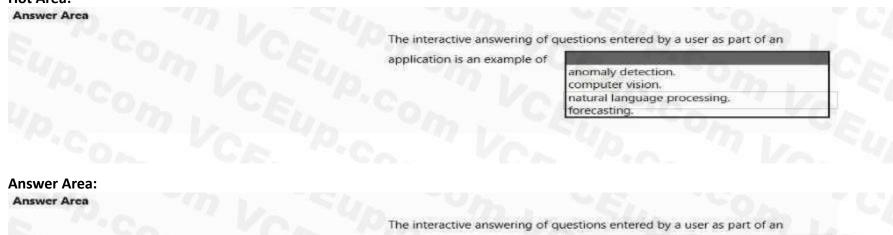
IT Certification Exams - Questions & Answers | Vdumps.com

QUESTION 5

HOTSPOT

Select the answer that correctly completes the sentence.

Hot Area:



application is an example of

anomaly detection. computer vision.

forecasting.

natural language processing.

U-dumps

Section:

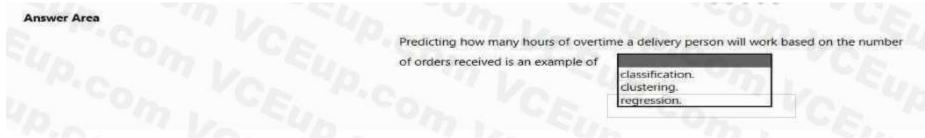
Explanation:

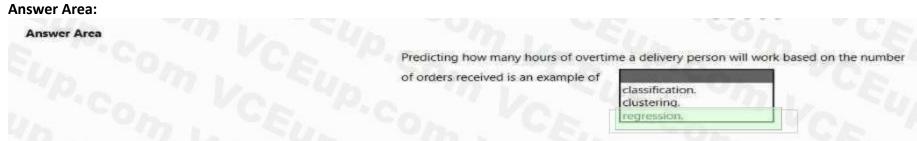
QUESTION 6

HOTSPOT

Select the answer that correctly completes the sentence.

Hot Area:





Section:

Explanation:

QUESTION 7

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

Correct Answer: A

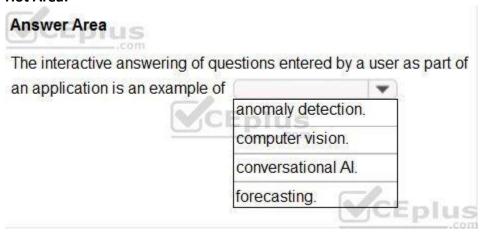
Section:

QUESTION 8

HOTSPOT

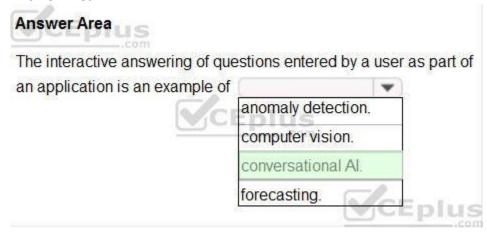
To complete the sentence, select the appropriate option in the answer area.

Hot Area:





Answer Area:



Section:

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.

Reference:

https://azure.microsoft.com/en-in/blog/microsoft-conversational-ai-tools-enable-developers-to-build-connect-and-manage-intelligent-bots

QUESTION 9

HOTSPOT

NOTE: Each correct selection is worth one point. **Hot Area: Answer Area** No Yes Statements You can use QnA Maker to query an Azure SQL database. You should use QnA Maker when you want a knowledge base to provide O the same answer to different users who submit similar questions. The QnA Maker service can determine the intent of a user utterance. **Answer Area: Answer Area** Statements You can use QnA Maker to query an Azure SQL database. You should use QnA Maker when you want a knowledge base to provide the same answer to different users who submit similar questions. The QnA Maker service can determine the intent of a user utterance Section: **Explanation:** Reference: https://docs.microsoft.com/en-gb/azure/cognitive-services/qnamaker/concepts/data-sources-and-content https://docs.microsoft.com/en-us/azure/cognitive-services/luis/choose-natural-language-processing-service **QUESTION 10** 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.

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

Hot Area:

Answer Area Yes No You can communicate with a bot by using email. 0 0 You can communicate with a bot by using Microsoft Teams. You can communicate with a bot by using a webchat interface. **Answer Area: Answer Area** Yes No You can communicate with a bot by using email. 0 You can communicate with a bot by using Microsoft Teams. You can communicate with a bot by using a webchat interface. Section: **Explanation:** Reference: https://docs.microsoft.com/en-us/azure/bot-service/bot-service-manage-channels?view=azure-bot-service-4.0 **QUESTION 11** 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. opinionatednessF. reliability and safety

Correct Answer: C, D, F

Section: Explanation:

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

QUESTION 12

You run a charity event that involves posting photos of people wearing sunglasses on Twitter.

You need to ensure that you only retweet photos that meet the following requirements:

Include one or more faces.

Contain at least one person wearing sunglasses.

What should you use to analyze the images?

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

Correct Answer: B

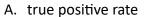
Section:

Explanation:

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

QUESTION 13

Which metric can you use to evaluate a classification model?



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

Correct Answer: A

Section:

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

QUESTION 14

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

Correct Answer: A, D



Section:

Explanation:

You can drag-and-drop datasets and modules onto the canvas.

Reference:

https://docs.microsoft.com/en-us/azure/machine-learning/concept-designer

QUESTION 15

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

Correct Answer: C

Section:

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

QUESTION 16

Which type of model is the chart used to evaluate?

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

Correct Answer: B

Section:

dumps

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

QUESTION 17

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

Correct Answer: B

Section:

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

QUESTION 18

You have a dataset that contains information about taxi journeys that occurred during a given period. You need to train a model to predict the fare of a taxi journey. What should you use as a feature?

- A. the number of taxi journeys in the dataset
- B. the trip distance of individual taxi journeys
- C. the fare of individual taxi journeys
- D. the trip ID of individual taxi journeys

Correct Answer: B

Section:

Explanation:

The label is the column you want to predict. The identified Featuresare the inputs you give the model to predict the Label. Example:

The provided data set contains the following columns:

vendor_id: The ID of the taxi vendor is a feature. rate_code: The rate type of the taxi trip is a feature. passenger_count: The number of passengers on the trip is a feature. trip_time_in_secs: The amount of time the trip took.

You want to predict the fare of the trip before the trip is completed. At that moment, you don't know how long the trip would take. Thus, the trip time is not a feature and you'll exclude this column from the model.

trip distance: The distance of the trip is a feature.

payment_type: The payment method (cash or credit card) is a feature. fare_amount: The total taxi fare paid is the label.

Reference:

https://docs.microsoft.com/en-us/dotnet/machine-learning/tutorials/predict-prices

QUESTION 19

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

Correct Answer: C

Section:

QUESTION 20

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. Language Understanding
- D. Custom Vision

Correct Answer: A

Section:

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/

QUESTION 21

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

Which two parameters should you use to access the web service? 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

Correct Answer: C, D

Section:

Explanation:

You can consume a published pipeline in the Published pipelines page. Select a published pipeline and find the REST endpoint of it.

To consume the pipeline, you need:

The REST endpoint for your service

The Primary Key for your service

Reference:

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

QUESTION 22

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

Correct Answer: C

Section: Explanation:

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

QUESTION 23

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

Correct Answer: C

Section:

QUESTION 24

You are evaluating whether to use a basic workspace or an enterprise workspace in Azure Machine Learning. What are two tasks that require an enterprise workspace? Each correct answer presents a complete solution. NOTE: Each correct selection is worth one point.

- A. Use a graphical user interface (GUI) to run automated machine learning experiments.
- B. Create a compute instance to use as a workstation.
- C. Use a graphical user interface (GUI) to define and run machine learning experiments from Azure Machine Learning designer.
- D. Create a dataset from a comma-separated value (CSV) file.

Correct Answer: A, C

Section:

Explanation:

Note: Enterprise workspaces are no longer available as of September 2020. The basic workspace now has all the functionality of the enterprise workspace. Reference: https://www.azure.cn/en-us/pricing/details/machine-learning/ https://docs.microsoft.com/en-us/azure/machine-learning/concept-workspace

QUESTION 25

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

Correct Answer: A, C

Section:

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.

QUESTION 26

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)

Correct Answer: D

Section:

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

QUESTION 27

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

Correct Answer: B

Section:

Explanation:

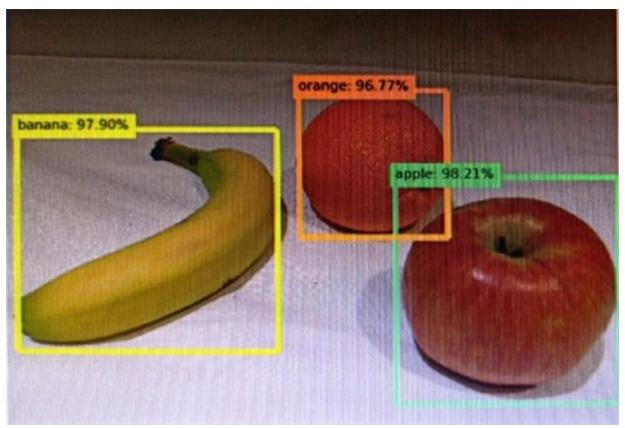
Object detection is similar to tagging, but the API returns the bounding box coordinates (in pixels) for each object found. For example, if an image contains a dog, cat and person, the Detect operation will list those objects together with their coordinates in the image. You can use this functionality 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

QUESTION 28

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

Correct Answer: A

Section:

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

QUESTION 29

What are two tasks that can be performed by using the Computer Vision service? Each correct answer presents a complete solution. NOTE: Each correct selection is worth one point.

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

Correct Answer: B, C

Section:



Explanation:

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

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

Reference:

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

QUESTION 30

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

Correct Answer: D

Section:

QUESTION 31

What are two tasks that can be performed by using computer vision? Each correct answer presents a complete solution. NOTE: Each correct selection is worth one point.

- A. Predict stock prices.
- B. Detect brands in an image.
- C. Detect the color scheme in an image
- D. Translate text between languages.
- E. Extract key phrases.

Correct Answer: B, C

Section:

Explanation:

B: Identify commercial brands in images or videos from a database of thousands of global logos. You can use this feature, for example, to discover which brands are most popular on social media or most prevalent in media product placement.

C: Analyze color usage within an image. Computer Vision can determine whether an image is black & white or color and, for color images, identify the dominant and accent colors.

Reference:

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

QUESTION 32

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

Correct Answer: C

Section:

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

QUESTION 33

In which two scenarios can you use the Form Recognizer service? Each correct answer presents a complete solution. NOTE: Each correct selection is worth one point.

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

Correct Answer: A, D

Section:

Explanation:

Reference:

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

QUESTION 34

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



Correct Answer: D

Section:

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

QUESTION 35

Which AI service can you use to interpret the meaning of a user input such as "Call me back later?"

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

Correct Answer: D

Section:

Explanation:

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

Reference:

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

QUESTION 36

You are developing a Chatbot solution in Azure.

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

- A. Translator Text
- B. Azure Cognitive Search
- C. Speech
- D. Language Understanding (LUIS)

Correct Answer: B

Section:

Explanation:

QUESTION 37

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)



Correct Answer: A

Section:

Explanation:

Translator is a cloud-based machine translation service you can use to translate text in near real-time through a simple REST API call. The service uses modern neural machine translation technology and offers statistical machine translation technology. Custom Translator is an extension of Translator, which allows you to build neural translation systems.

Reference:

https://docs.microsoft.com/en-us/azure/cognitive-services/translator/

QUESTION 38

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

Correct Answer: B

Section:

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

now [DateTime]

QUESTION 39

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.

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 recognitionB. key phrase extraction
- C. sentiment analysis
- D. translation

Correct Answer: A

Section:

Explanation:

Reference:

Named Entity Recognition (NER) is the ability to identify different entities in text and categorize them into pre-defined classes or types such as: person, location, event, product, and organization. In this question, the square brackets indicate the entities such as DateTime, PersonType, Skill.

https://docs.microsoft.com/en-in/azure/cognitive-services/text-analytics/how-tos/text-analytics-how-to-entity-linking?tabs=version-3-preview

QUESTION 40

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

Correct Answer: B

Section:

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

QUESTION 41

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

Correct Answer: B, D

Section: Explanation:

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

QUESTION 42

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)

Correct Answer: C

Section: Explanation:

=..p.a...a...

Reference:

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

QUESTION 43

Which two scenarios are examples of a conversational AI workload? Each correct answer presents a complete solution. NOTE: Each correct selection is worth one point.

- A. a telephone answering service that has a pre-recorder message
- B. a chatbot that provides users with the ability to find answers on a website by themselves
- C. telephone voice menus to reduce the load on human resources
- D. a service that creates frequently asked questions (FAQ) documents by crawling public websites

Correct Answer: B, C

Section:

Explanation:

B: A bot is an automated software program designed to perform a particular task. Think of it as a robot without a body. C: Automated customer interaction is essential to a business of any size. In fact, 61% of consumers prefer to communicate via speech, and most of them prefer self-service. Because customer satisfaction is a priority for all businesses, selfservice is a critical facet of any customer-facing communications strategy.

Incorrect Answers:

D: Early bots were comparatively simple, handling repetitive and voluminous tasks with relatively straightforward algorithmic logic. An example would be web crawlers used by search engines to automatically explore and catalog web content.

Reference: https://docs.microsoft.com/en-us/azure/architecture/data-guide/big-data/ai-overview https://docs.microsoft.com/en-us/azure/architecture/solution-ideas/articles/interactive-voice-response-bot

QUESTION 44



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

What are three ways to create question-and answer text by using QnA Maker? Each correct answer presents a complete solution. NOTE: Each correct selection is worth one point.

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

Correct Answer: A, C, E

Section: Explanation:

Automatic extraction

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

Reference:

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

QUESTION 45

You have a frequently asked questions (FAQ) PDF file.

You need to create a conversational support system based on the FAQ.

Which service should you use?

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



Correct Answer: A

Section:

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 semi-structured content, including FAQs, manuals, and documents.

Reference:

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

QUESTION 46

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

Correct Answer: B, C

Section:

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/

QUESTION 47

Which two scenarios are examples of a conversational AI workload? Each correct answer presents a complete solution. NOTE: Each correct selection is worth one point.

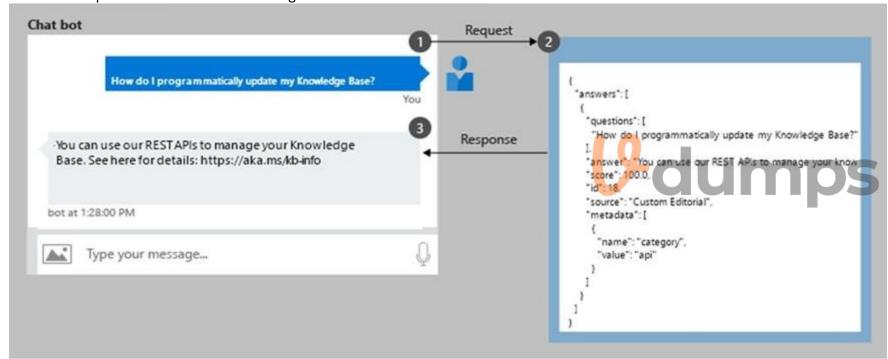
- A. a smart device in the home that responds to questions such as "What will the weather be like today?"
- B. a website that uses a knowledge base to interactively respond to users' questions
- C. assembly line machinery that autonomously inserts headlamps into cars
- D. monitoring the temperature of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

Correct Answer: A, B

Section:

QUESTION 48

You have the process shown in the following exhibit.



Which type AI solution is shown in the diagram?

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

Correct Answer: B

Section:

QUESTION 49

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

Correct Answer: B

Section:

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 semi-structured content, including FAQs, manuals, and documents. Answer users' questions with the best answers from the QnAs in your knowledge baseâ€"automatically. Your knowledge base gets smarter, too, as it continually learns from user behavior. Incorrect Answers:

A: 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. D: Azure Cognitive Services Face Detection API: At a minimum, each detected face corresponds to a faceRectangle field in the response. This set of pixel coordinates for the left, top, width, and height mark the located face. Using these coordinates, you can get the location of the face and its size. In the API response, faces are listed in size order from largest to smallest.

Reference:

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

QUESTION 50

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

Correct Answer: A

Section:

U-dumps

QUESTION 51

Which scenario is an example of a webchat bot?

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

Correct Answer: D

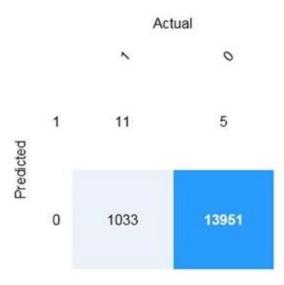
Section:

QUESTION 52

HOTSPOT

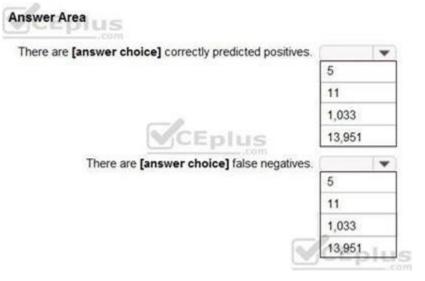
You are developing a model to predict events by using classification.

You have a confusion matrix for the model scored on test data as shown in the following exhibit.



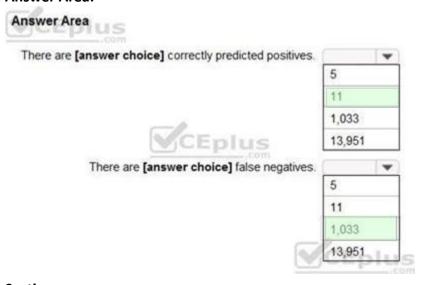
Use the drop-down menus to select the answer choice that completes each statement based on the information presented in the graphic. NOTE: Each correct selection is worth one point.

Hot Area:





Answer Area:



Section:

Explanation:

Box 1: 11

	Predicted	
	Positive	Negative
Actual True	TP	FN
Actual False	FP	TN

TP = True Positive.

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

Box 2: 1,033

FN = False Negative

Reference:

https://docs.microsoft.com/en-us/azure/machine-learning/studio/evaluate-model-performance

QUESTION 53

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.

Hot Area:

Answer Area

Statements	Yes	No
Forecasting housing prices based on historical data is an example of anomaly detection.	0	0
Identifying suspicious sign-ins by looking for deviations from usual patterns is an example of anomaly detection.	0	0
Predicting whether a patient will develop diabetes based on the patient's medical history is an example of anomaly detection.	0	0
		F = 5-12 5-12



Answer Area:

Answer Area

CEPIUS Statements	Yes	No
Forecasting housing prices based on historical data is an example of anomaly detection.	0	0
Identifying suspicious sign-ins by looking for deviations from usual patterns is an example of anomaly detection.	0	0
Predicting whether a patient will develop diabetes based on the patient's medical history is an example of anomaly detection.	0	olus

Section:

Explanation:

QUESTION 54

HOTSPOT

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

Hot Area:

Answer Area ViCEplus The handling of unusual or missing values provided to an Al system is a consideration principle for responsible Al. for the Microsoft inclusiveness privacy and security reliability and safety transparency **Answer Area: Answer Area** VICEDIUS The handling of unusual or missing values provided to an Al system is a consideration principle for responsible Al. for the Microsoft inclusiveness privacy and security reliability and safety CEplus Udumps transparency Section: **Explanation: QUESTION 55** HOTSPOT To complete the sentence, select the appropriate option in the answer area. **Hot Area: Answer Area** Predicting how many hours of overtime a delivery person will work based on the number of order received is an example of Classification. clustering. regression.

Answer Area Predicting how many hours of overtime a delivery person will work based on the number of order received is an example of classification. clustering. regression.

Section:

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. Incorrect Answers:

Classification is a machine learning method that uses data to determine the category, type, or class of an item or row of data. Clustering, in machine learning, is a method of grouping data points into similar clusters. It is also called segmentation.

Over the years, many clustering algorithms have been developed. Almost all clustering algorithms use the features of individual items to find similar items. For example, you might apply clustering to find similar people by demographics. You might use clustering with text analysis to group sentences with similar topics or sentiment.

Reference:

https://docs.microsoft.com/en-us/azure/machine-learning/algorithm-module-reference/linear-regression https://docs.microsoft.com/en-us/azure/machine-learning/studio-module-reference/machine-learning-initialize-model-clustering

QUESTION 56

HOTSPOT

Hot Area:

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

NOTE: Each correct selection is worth one point.

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



Statements Yes No

Azure Machine Learning designer provides a drag-and-drop visual canvas to build, test, and deploy machine learning models.



Azure Machine Learning designer enables you to save your progress as a pipeline draft.



Azure Machine Learning designer enables you to include custom JavaScript functions.



Section:

Explanation:

Box 1: Yes

Azure Machine Learning designer lets you visually connect datasets and modules on an interactive canvas to create machine learning models. Box 2: Yes With the designer you can connect the modules to create a pipeline draft.

As you edit a pipeline in the designer, your progress is saved as a pipeline draft.

Box 3: No

Reference:

https://docs.microsoft.com/en-us/azure/machine-learning/concept-designer

QUESTION 57

HOTSPOT

You have the following dataset.

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



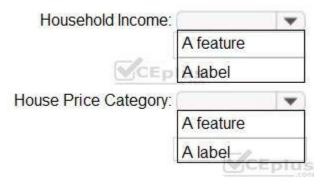
You plan to use the dataset to train a model that will predict the house price categories of houses.

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.

Hot Area:

Answer Area



Answer Area

Household Income:	()	v
	A feature	
V CEP	A label	
House Price Category:		v
	A feature	
	A label	

Section:

Explanation:

Reference:

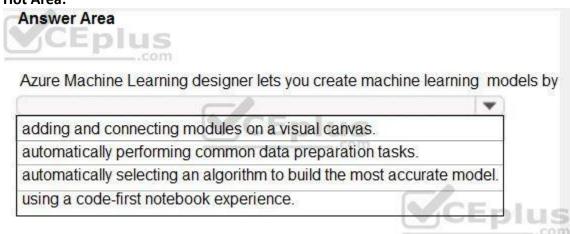
https://docs.microsoft.com/en-us/azure/machine-learning/studio/interpret-model-results

QUESTION 58

HOTSPOT

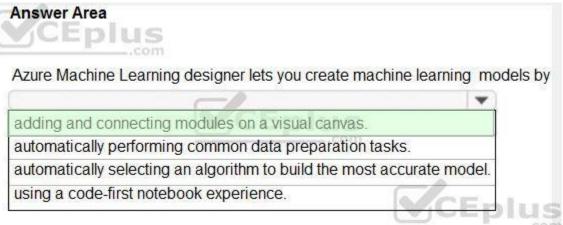
To complete the sentence, select the appropriate option in the answer area.

Hot Area:





Answer Area:



Section:

Explanation:

Reference:

https://docs.microsoft.com/en-us/azure/machine-learning/concept-designer

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. **Hot Area: Answer Area** Yes No Statements Automated machine learning provides you with the ability to include 0 custom Python scripts in a training pipeline. Automated machine learning implements machine learning solutions 0 without the need for programming experience. Automated machine learning provides you with the ability to visually connect datasets and modules on an interactive canvas. **Answer Area: Answer Area** Yes Statements Automated machine learning provides you with the ability to include custom Python scripts in a training pipeline. Automated machine learning implements machine learning solutions 0 without the need for programming experience. Automated machine learning provides you with the ability to visually connect datasets and modules on an interactive canvas. Section: **Explanation:** Reference: https://docs.microsoft.com/en-us/azure/machine-learning/how-to-designer-python https://docs.microsoft.com/en-us/azure/machine-learning/concept-automated-ml

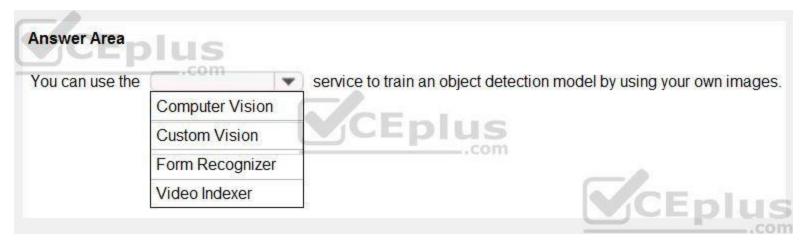
QUESTION 59

QUESTION 60 HOTSPOT

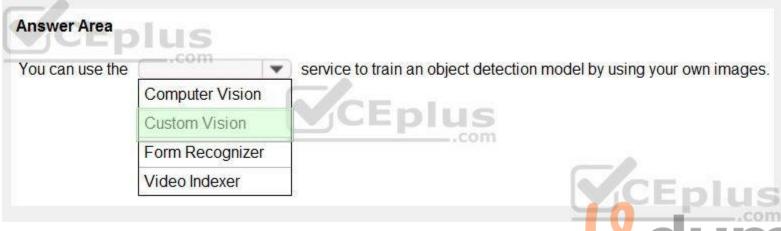
Hot Area:

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

IT Certification Exams - Questions & Answers | Vdumps.com



Answer Area:



Section:

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.

Incorrect Answers:

Computer Vision:

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

Reference

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

QUESTION 61

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.

Hot Area:

Answer Area No Statements Yes When creating an object detection model in the Custom Vision service, 0 you must choose a classification type of either Multilabel or Multiclass. You can create an object detection model in the Custom Vision service to find the location of content within an image. When creating an object detection model in the Custom Vision service, you can select from a set of predefined domains. **Answer Area: Answer Area** No Statements Yes When creating an object detection model in the Custom Vision service, you must choose a classification type of either Multilabel or Multiclass. You can create an object detection model in the Custom Vision service to find the location of content within an image. When creating an object detection model in the Custom Vision service, you can select from a set of predefined domains. Section: **Explanation:** Reference: https://docs.microsoft.com/en-us/azure/cognitive-services/custom-vision-service/get-started-build-detector **QUESTION 62 HOTSPOT** You have a database that contains a list of employees and their photos. You are tagging new photos of the employees. For each of the following statements select Yes if the statement is true. Otherwise, select No. NOTE: Each correct selection is worth one point.

Hot Area:

Answer Area Yes No Statements The Face service can be used to group all the employees who 0 0 have similar facial characteristics. The Face service will be more accurate if you provide more 0 sample photos of each employee from different angles. If an employee is wearing sunglasses, the Face service will always fail to recognize the employee. **Answer Area: Answer Area** Yes Statements No The Face service can be used to group all the employees who 0 have similar facial characteristics. CEplus The Face service will be more accurate if you provide more sample photos of each employee from different angles. If an employee is wearing sunglasses, the Face service will always fail to recognize the employee. Section: **Explanation:** Reference: https://docs.microsoft.com/en-us/azure/cognitive-services/face/overview https://docs.microsoft.com/en-us/azure/cognitive-services/face/concepts/face-detection **QUESTION 63**

Hot Area:

HOTSPOT

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.

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.

Section:

Explanation:

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

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

QUESTION 64

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.

Hot Area:

Answer Area

Statements Statements	Yes	No
The Text Analytics service can identify in which language text is written.	0	0
The Text Analytics service can detect handwritten signatures in a document.	0	0
The Text Analytics service can identify companies and organizations mentioned in a document.	OE	plus

Statements Yes No The Text Analytics service can identify in which language text is written. The Text Analytics service can detect handwritten signatures in a document. The Text Analytics service can identify companies and organizations mentioned in a document.

Section:

Explanation:

Answer Area

The Text Analytics API is a cloud-based service that provides advanced natural language processing over raw text, and includes four main functions: sentiment analysis, key phrase extraction, named entity recognition, and language detection.

Box 1: Yes

You can detect which language the input text is written in and report a single language code for every document submitted on the request in a wide range of languages, variants, dialects, and some regional/cultural languages. The language code is paired with a score indicating the strength of the score.

Box 2: No

Box 3: Yes

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.

Reference:

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

Udumps

QUESTION 65

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.

Hot Area:

Answer Area Statements Yes No Monitoring online service reviews for profanities is an example of natural language processing. Identifying brand logos in an image is an example of natural languages processing. Monitoring public news sites for negative mentions of a product is an example of natural language processing.

Answer Area Statements Yes No Monitoring online service reviews for profanities is an example of natural language processing. Identifying brand logos in an image is an example of natural languages processing. Monitoring public news sites for negative mentions of a product is an example of natural language processing.

Section:

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

Reference:

https://azure.microsoft.com/es-es/blog/machine-assisted-text-classification-on-content-moderator-public-preview/
https://docs.microsoft.com/en-us/azure/architecture/data-guide/technology-choices/natural-language-processing

QUESTION 66

HOTSPOT

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

Hot Area:

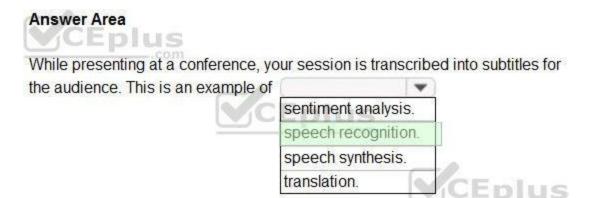
Answer Area

Viceplus

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.



Explanation:

Reference:

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

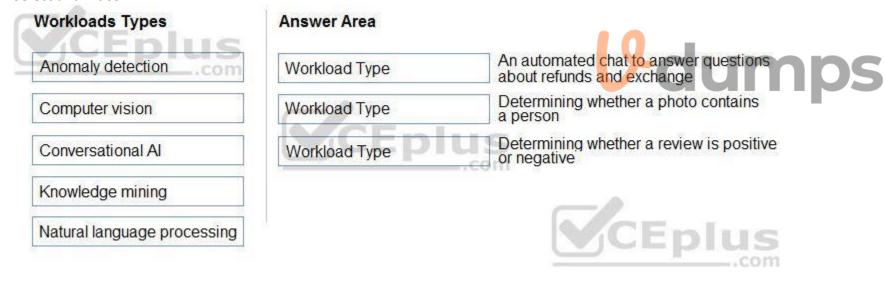
QUESTION 67

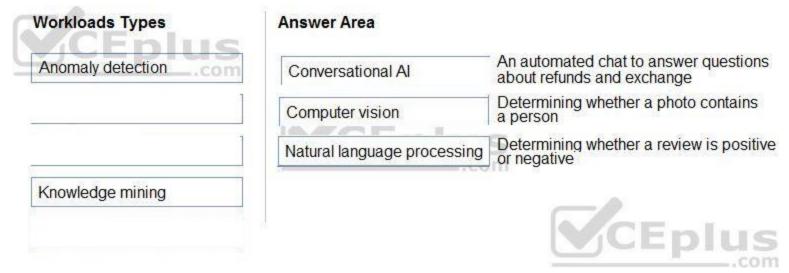
DRAG DROP

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.

Select and Place:





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. Reference:

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

QUESTION 68

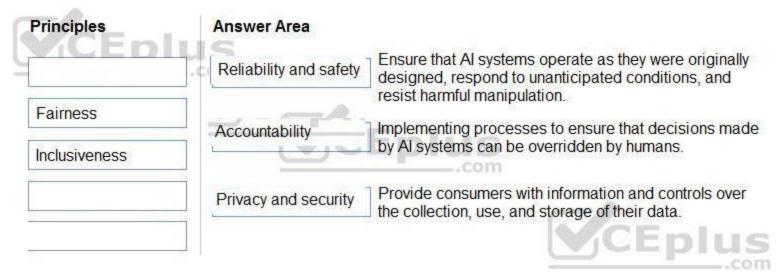
DRAG DROP

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.

Select and Place:

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



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

The people who design and deploy AI systems must be accountable for how their systems operate. Organizations should draw upon industry standards to develop accountability norms. These norms can ensure that AI systems are not the final authority on any decision that impacts people's lives and that humans maintain meaningful control over otherwise highly autonomous AI systems.

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

Reference:

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

QUESTION 69

DRAG DROP

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.

Select and Place:

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

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

Explanation:

Reference:

https://docs.microsoft.com/en-us/learn/paths/get-started-with-artificial-intelligence-on-azure/

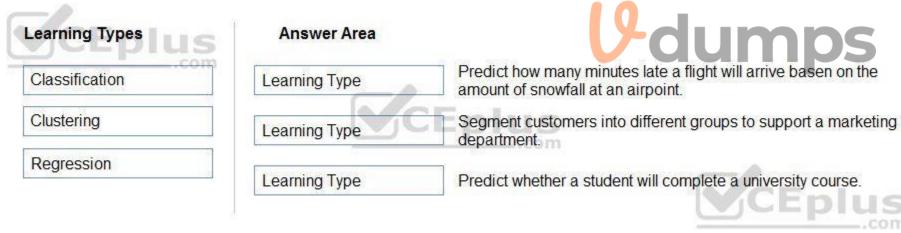
QUESTION 70

DRAG DROP

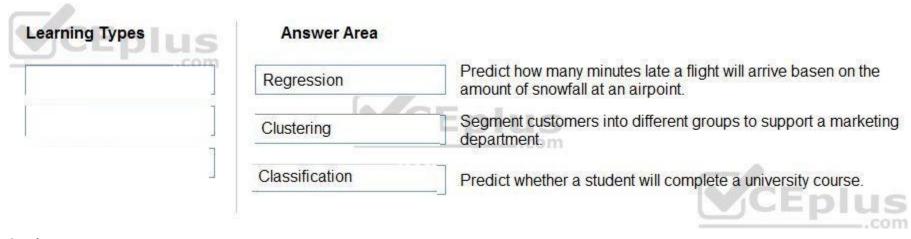
Match the types of machine learning to the appropriate scenarios.

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.

Select and Place:



Correct Answer:



Section:

Explanation:

Box 1: Regression

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.

Box 2: Classification

Classification is a machine learning method that uses data to determine the category, type, or class of an item or row of data.

Box 3: Clustering

Clustering, in machine learning, is a method of grouping data points into similar clusters. It is also called segmentation.

Over the years, many clustering algorithms have been developed. Almost all clustering algorithms use the features of individual items to find similar items. For example, you might apply clustering to find similar people by demographics. You might use clustering with text analysis to group sentences with similar topics or sentiment.

Reference:

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

QUESTION 71

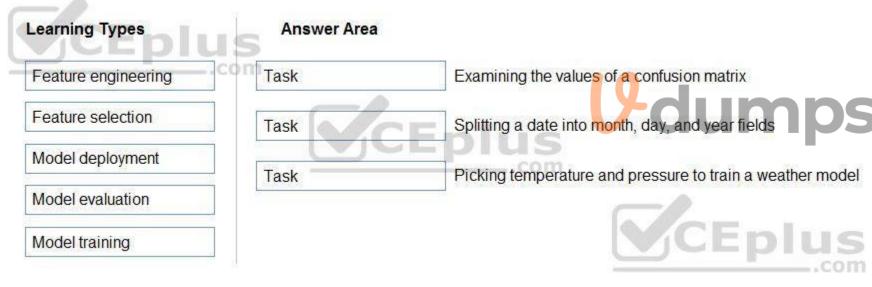
DRAG DROP

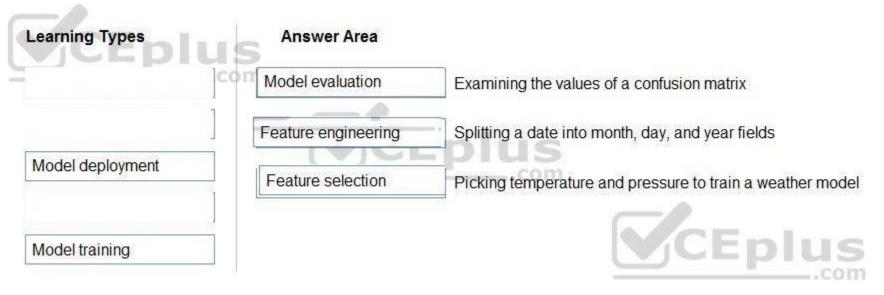
Match the machine learning tasks to the appropriate scenarios.

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.

Select and Place:





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.

Reference:

https://docs.microsoft.com/en-us/azure/machine-learning/studio/evaluate-model-performance https://docs.microsoft.com/en-us/azure/machine-learning/concept-automated-ml

QUESTION 72

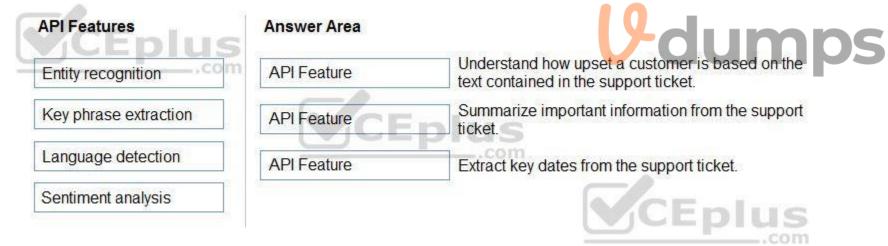
DRAG DROP

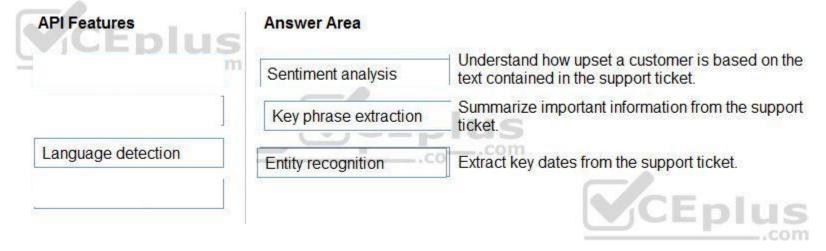
You plan to apply Text Analytics API features to a technical support ticketing system.

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.

Select and Place:





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.

Reference:

https://docs.microsoft.com/en-us/azure/architecture/data-guide/technology-choices/natural-language-processing https://azure.microsoft.com/en-us/services/cognitive-services/text-analytics

QUESTION 73

You are building a tool that will process your company's product images 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

Correct Answer: C

Section:

Explanation:

Reference:

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

QUESTION 74

You plan to develop a bot that will enable users to query a knowledge base by using natural language processing.

Which two services should you include in the solution? Each correct answer presents part of the solution.

NOTE: Each correct selection is worth one point.

- A. QnA Maker
- B. Azure Bot Service
- C. Form Recognizer
- D. Anomaly Detector

Correct Answer: A, B

Section:

Explanation:

Reference:

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

https://docs.microsoft.com/en-us/azure/cognitive-services/luis/choose-natural-language-processing-service

QUESTION 75

HOTSPOT

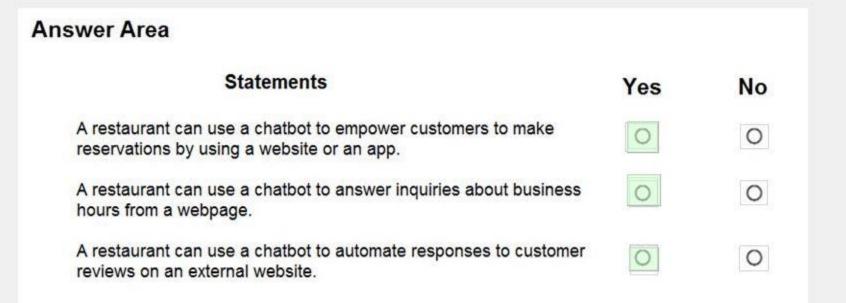


For each of the following statements, select Yes if the statement is true. Otherwise, select No. NOTE: Each correct selection is worth one point.

Hot Area:

wer Area		
Statements	Yes	No
A restaurant can use a chatbot to empower customers to make reservations by using a website or an app.	0	0
A restaurant can use a chatbot to answer inquiries about business hours from a webpage.	0	0
A restaurant can use a chatbot to automate responses to customer reviews on an external website.	0	0

Answer Area:



Section: Explanation:

Reference:

U-dumps

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

QUESTION 76

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

Correct Answer: D

Section:

Explanation:

Reference:

https://docs.microsoft.com/en-us/azure/cognitive-services/qnamaker/how-to/improve-knowledge-base

QUESTION 77

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

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

Correct Answer: B

Section:

Explanation:

Reference:

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

QUESTION 78

HOTSPOT

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

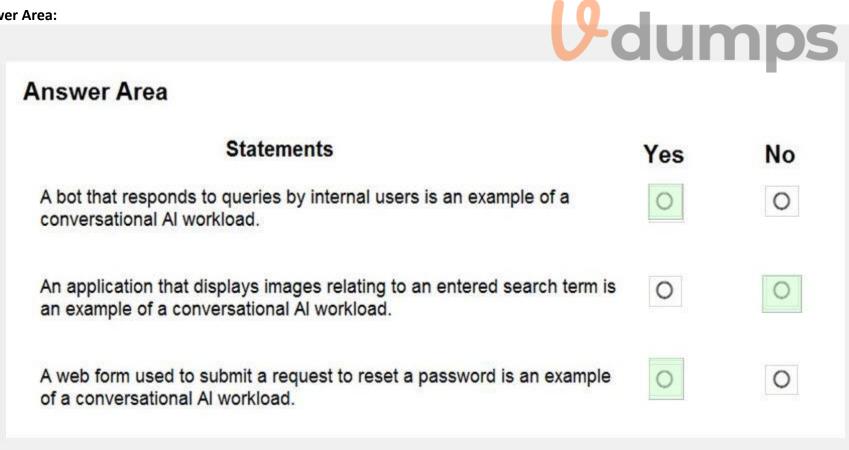
NOTE: Each correct selection is worth one point.

Hot Area:



Answer Area Statements Yes No A bot that responds to queries by internal users is an example of a 0 0 conversational Al workload. An application that displays images relating to an entered search term is 0 an example of a conversational Al workload. 0 0 A web form used to submit a request to reset a password is an example of a conversational Al workload.

Answer Area:



Section: **Explanation:**

Reference:

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

QUESTION 79

When you design an AI system to assess whether loans should be approved, the factors used to make the decision should be explainable. This is an example of which Microsoft guiding principle for responsible AI?

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

Correct Answer: A

Section:

Explanation:

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.

Incorrect Answers:

B: 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. C: Fairness is a core ethical principle that all humans aim to understand and apply. This principle is even more important when AI systems are being developed. Key checks and balances need to make sure that the system's decisions don't discriminate or run a gender, race, sexual orientation, or religion bias toward a group or individual. D: 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.

Reference:
https://docs.microsoft.com/en-us/azure/cloud-adoption-framework/strategy/responsible-ai

QUESTION 80

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.

Hot Area:

nswer Area		
Statements	Yes	No
Providing an explanation of the outcome of a credit loan application is an example of the Microsoft transparency principle for responsible Al.	0	0
A triage bot that prioritizes insurance claims based on injuries is an example of the Microsoft reliability and safety principle for responsible Al.	0	0
An Al solution that is offered at different prices for different sales territories is an example of the Microsoft inclusiveness principle for responsible Al.	0	0

Answer Area:

Answer Area	Statements	9 du	Yes	No
	ation of the outcome of a credi	t loan application is	0	0
A triage bot that prio	ritizes insurance claims based bility and safety principle for re	d on injuries is an example	0	0
	offered at different prices for o		0	0

Section:

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. Reference:

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

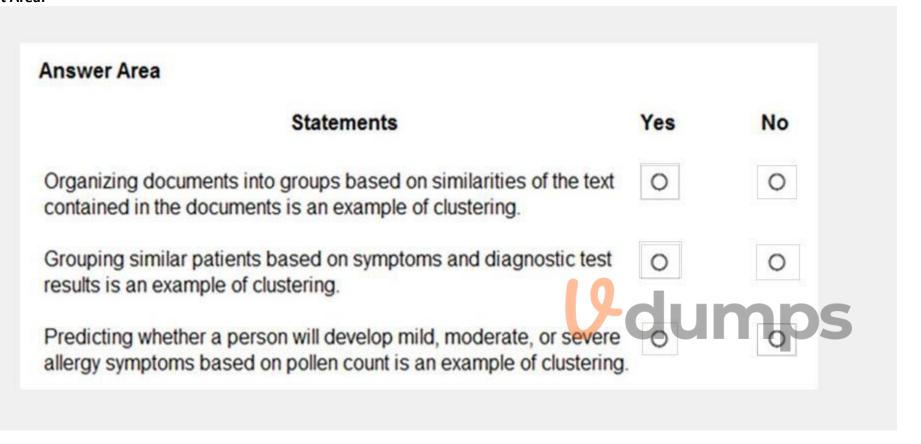
QUESTION 81

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.

Hot Area:



Inswer Area		
Statements	Yes	No
Organizing documents into groups based on similarities of the text contained in the documents is an example of clustering.	0	0
Grouping similar patients based on symptoms and diagnostic test results is an example of clustering.	0	0
Predicting whether a person will develop mild, moderate, or severe allergy symptoms based on pollen count is an example of clustering.	0	0

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.

Reference:

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

QUESTION 82

HOTSPOT

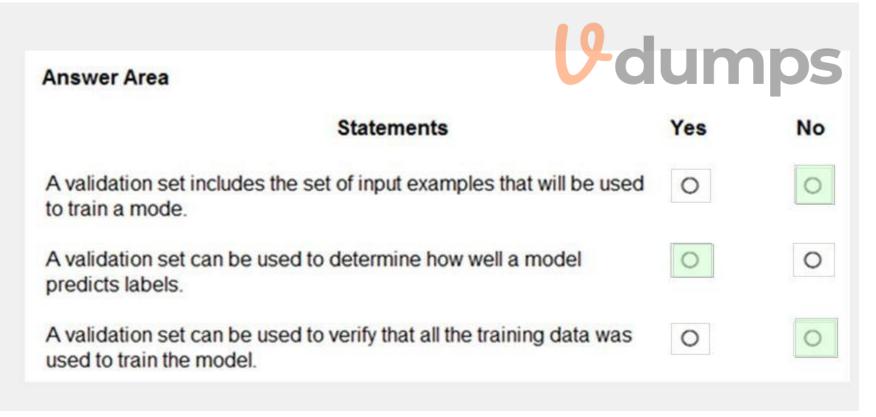
For each of the following statements, select Yes if the statement is true. Otherwise, select No.

NOTE: Each correct selection is worth one point.

Hot Area:

Answer Area		
Statements	Yes	No
A validation set includes the set of input examples that will be used to train a mode.	0	0
A validation set can be used to determine how well a model predicts labels.	0	0
A validation set can be used to verify that all the training data was used to train the model.	0	0

Answer Area:



Section:

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: Ye

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.

Reference:

https://machinelearningmastery.com/difference-test-validation-datasets/

QUESTION 83

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

NOTE: Each correct selection is worth one point.

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

Correct Answer: A, C

Section:

Explanation:

A: R-squared (R2), or Coefficient of determination represents the predictive power of the model as a value between -inf and 1.00. 1.00 means there is a perfect fit, and the fit can be arbitrarily poor so the scores can be negative. C: RMS-loss or Root Mean Squared Error (RMSE) (also called Root Mean Square Deviation, RMSD), measures the difference between values predicted by a model and the values observed from the environment that is being modeled.

Udumps

Incorrect Answers:

B: F1 score also known as balanced F-score or F-measure is used to evaluate a classification model. D: aucROC or area under the curve (AUC) is used to evaluate a classification model.

Reference:

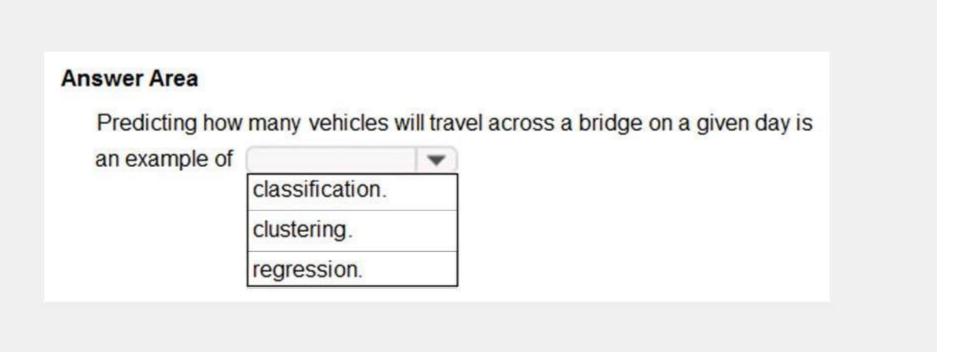
https://docs.microsoft.com/en-us/dotnet/machine-learning/resources/metrics

QUESTION 84

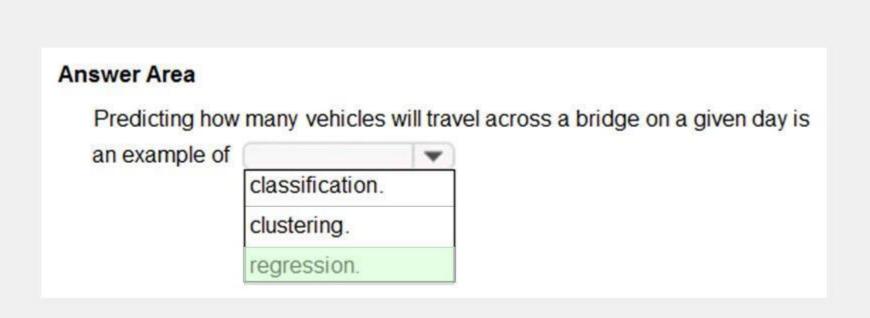
HOTSPOT

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

Hot Area:



Answer Area:



Section:

Explanation:

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

Reference

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

QUESTION 85

DRAG DROP

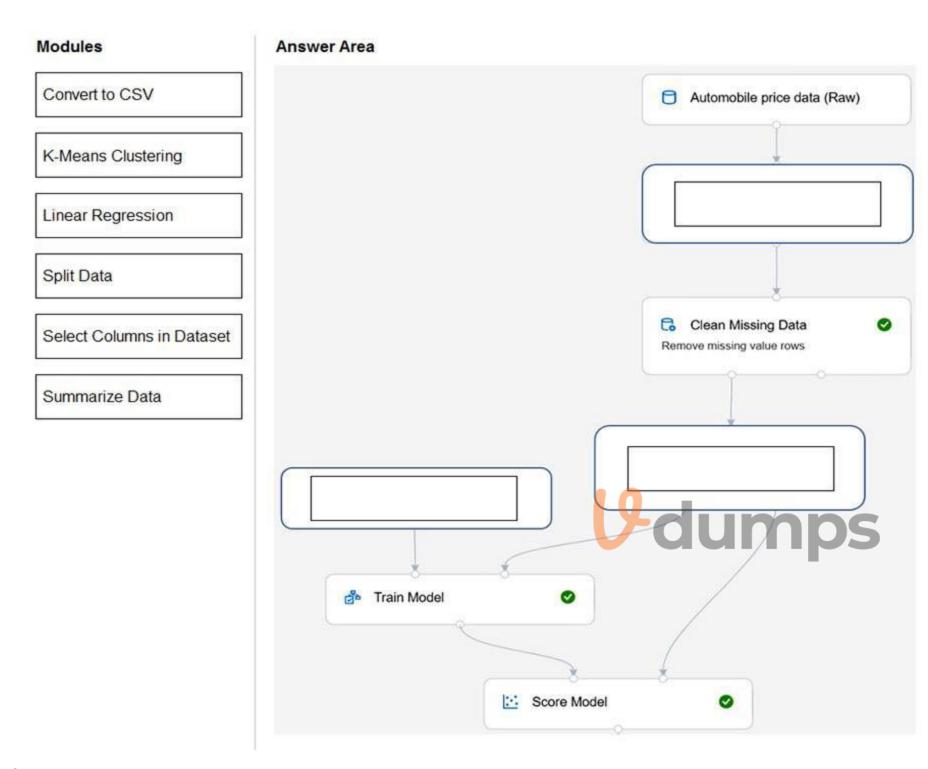
You need to use Azure Machine Learning designer to build a model that will predict automobile prices.

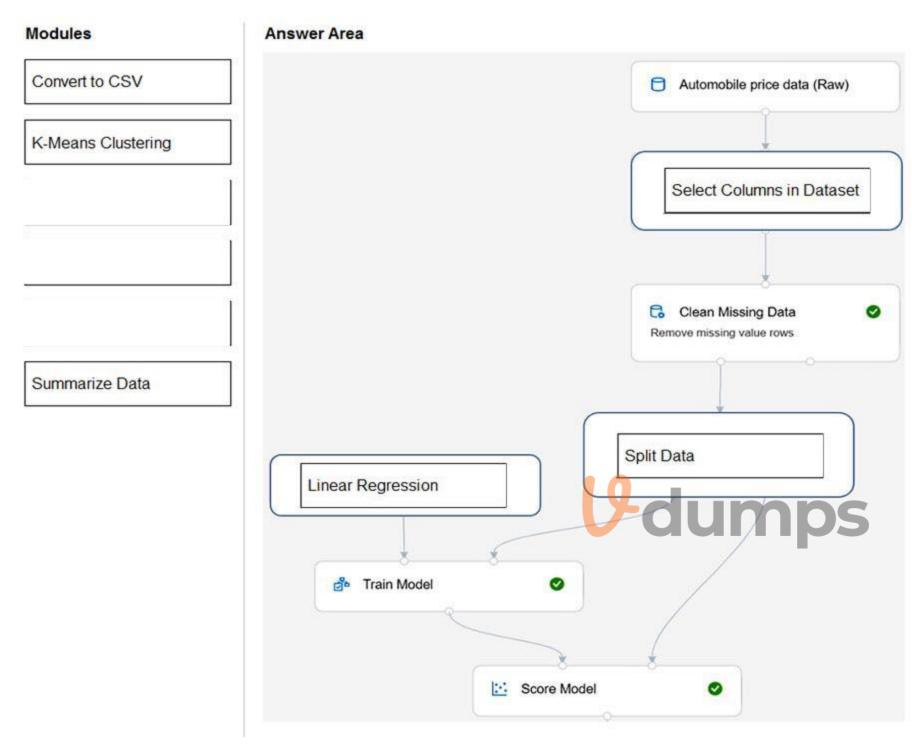
Which type of modules should you use to complete the model? To answer, drag the appropriate modules to the correct locations. Each module may be used once, more than once, or not at all. You may need to drag the split bar between panes or scroll to view content.

Udumps

NOTE: Each correct selection is worth one point.

Select and Place:

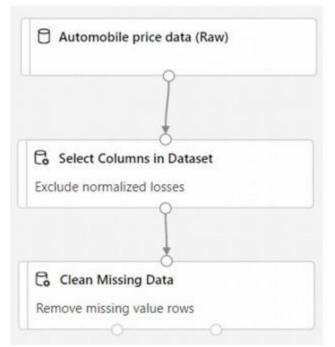




Explanation:

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.

Reference:

https://docs.microsoft.com/en-us/azure/machine-learning/tutorial-designer-automobile-price-train-score

QUESTION 86

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

nilar purchasing habits?

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

Correct Answer: C

Section:

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:

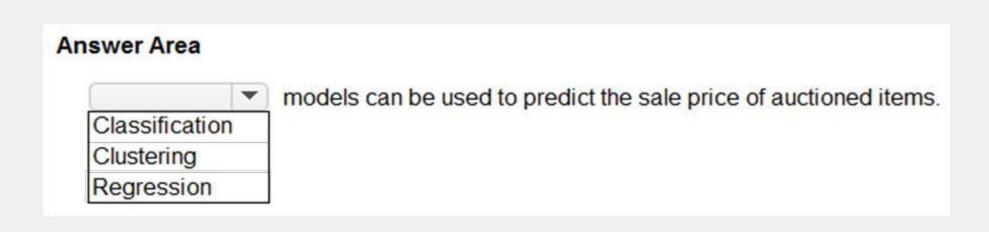
https://docs.microsoft.com/en-us/dotnet/machine-learning/resources/tasks

QUESTION 87

HOTSPOT

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

Hot Area:



Answer Area:



Section:

Explanation:

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

Reference

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

QUESTION 88

HOTSPOT

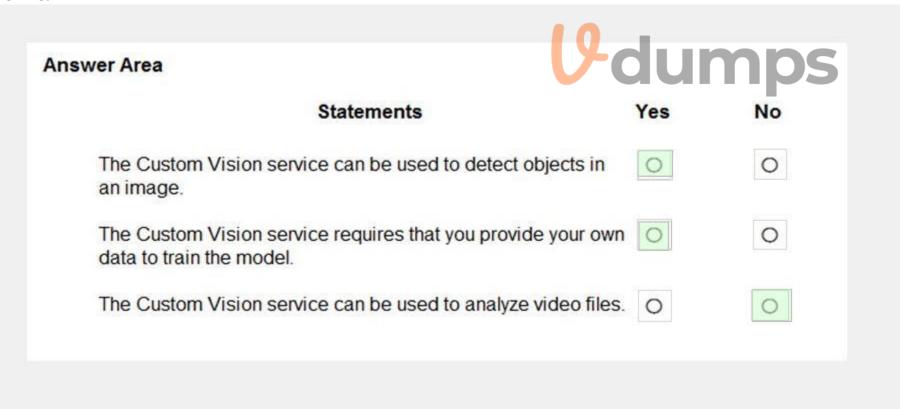
For each of the following statements, select Yes if the statement is true. Otherwise, select No.

NOTE: Each correct selection is worth one point.

Hot Area:

Statements	Yes	No
he Custom Vision service can be used to detect objects in nimage.	0	0
he Custom Vision service requires that you provide your own ata to train the model.	0	0
he Custom Vision service can be used to analyze video files.	0	0

Answer Area:



Section:

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.

Udumps

Box 3: No

Custom Vision service can be used only on graphic files.

Reference:

https://docs.microsoft.com/en-us/azure/cognitive-services/Custom-Vision-Service/overview

QUESTION 89

You are processing photos of runners in a race.

You need to read the numbers on the runners' shirts to identity the runners in the photos.

Which type of computer vision should you use?

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

Correct Answer: B

Section:

Explanation:

Optical character recognition (OCR) allows you to extract printed or handwritten text from images and documents.

Reference

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

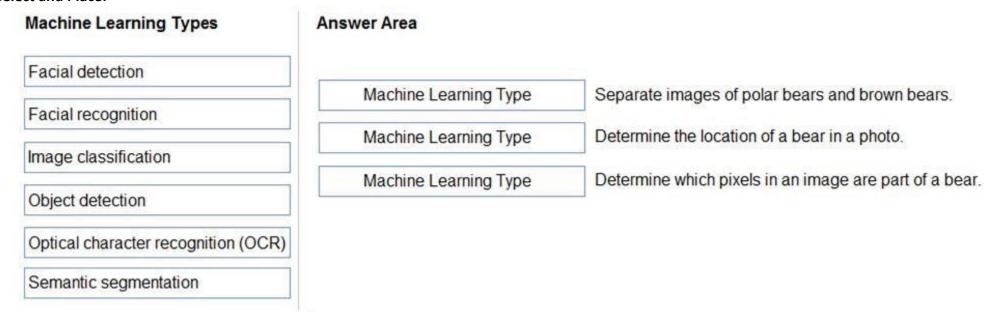
QUESTION 90

DRAG DROP

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.

Select and Place:



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

Explanation:

Box 1: Image classification

Image classification is a supervised learning problem: define a set of target classes (objects to identify in images), and train a model to recognize them using labeled example photos.

Box 2: Object detection

Object detection is a computer vision problem. While closely related to image classification, object detection performs image classification at a more granular scale. Object detection both locates and categorizes entities within images.

Box 3: Semantic Segmentation

Semantic segmentation achieves fine-grained inference by making dense predictions inferring labels for every pixel, so that each pixel is labeled with the class of its enclosing object ore region.

Reference:

https://developers.google.com/machine-learning/practica/image-classification

https://docs.microsoft.com/en-us/dotnet/machine-learning/tutorials/object-detection-model-builder

https://nanonets.com/blog/how-to-do-semantic-segmentation-using-deep-learning/

QUESTION 91

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

Correct Answer: A

Section:

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.

Incorrect Answers:

B: Optical character recognition (OCR) allows you to extract printed or handwritten text from images and documents. C: Scene segmentation determines when a scene changes in video based on visual cues. A scene depicts a single event and it's composed by a series of consecutive shots, which are semantically related.

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

QUESTION 92

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

Correct Answer: A, D

Section:

Explanation:

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

Incorrect Answers:

C: Extracting key phrases is not speech synthesis.

Reference:

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

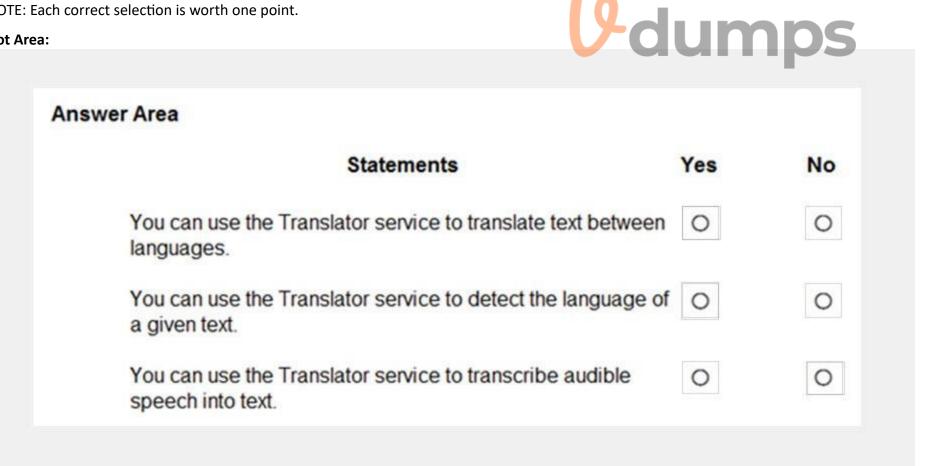
QUESTION 93

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.

Hot Area:



Inswer Area			
	Statements	Yes	No
You can us languages.	e the Translator service to translate to	ext between O	0
You can us a given tex	e the Translator service to detect the t.	language of	0
You can us speech into	e the Translator service to transcribe text.	audible	0

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. Reference:

https://docs.microsoft.com/en-us/azure/cognitive-services/Translator/translator-info-overview https://docs.microsoft.com/en-us/legal/cognitive-services/speech-service/speech-to-text/transparency-note

QUESTION 94

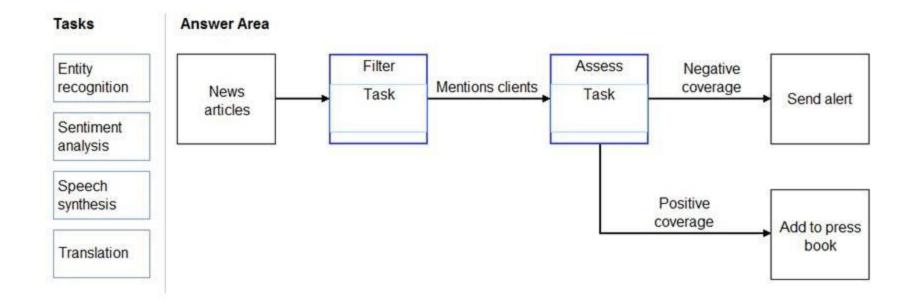
DRAG DROP

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.

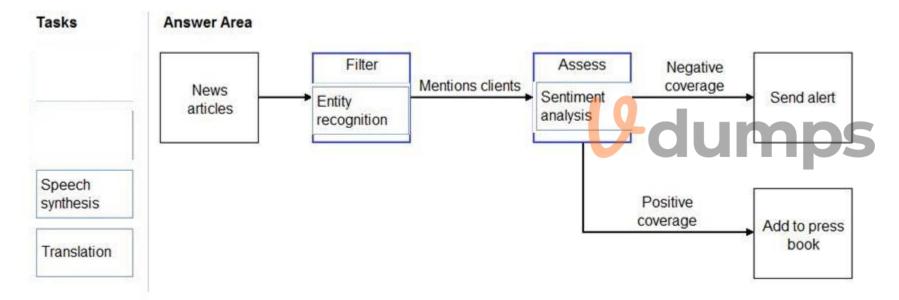
Which natural language processing tasks should you use to complete the process? To answer, drag the appropriate tasks to the correct locations. Each task may be used once, more than once, or not at all. You may need to drag the split bar between panes or scroll to view content.

NOTE: Each correct selection is worth one point.

Select and Place:



Correct Answer:



Section:

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.

Reference:

https://docs.microsoft.com/en-us/azure/machine-learning/studio-module-reference/named-entity-recognition

https://docs.microsoft.com/en-us/azure/cognitive-services/text-analytics/how-tos/text-analytics-how-to-sentiment-analysis

QUESTION 95

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

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

Correct Answer: D

Section:

Explanation:

D: Content types of documents you can add to a knowledge base:

Content types include many standard structured documents such as PDF, DOC, and TXT.

Note: The tool supports the following file formats for ingestion:

.tsv: QnA contained in the format Question(tab)Answer.

.txt, .docx, .pdf: QnA contained as regular FAQ content--that is, a sequence of questions and answers.

Incorrect Answers:

A: PPTX is the default presentation file format for new PowerPoint presentations.

B: It is not possible to ingest xml file directly.

Reference:

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

QUESTION 96

In which scenario should you use key phrase extraction?



- A. identifying whether reviews of a restaurant are positive or negative
- B. generating captions for a video based on the audio track
- C. identifying which documents provide information about the same topics
- D. translating a set of documents from English to German

Correct Answer: C

Section:

QUESTION 97

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

Correct Answer: A

Section:

Explanation:

Reference:

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

QUESTION 98

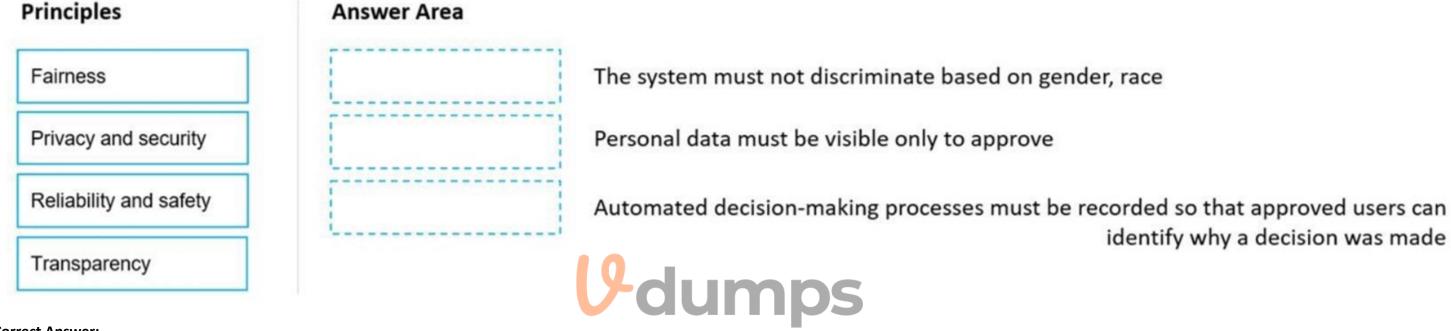
DRAG DROP

Match the principles of responsible AI to appropriate requirements.

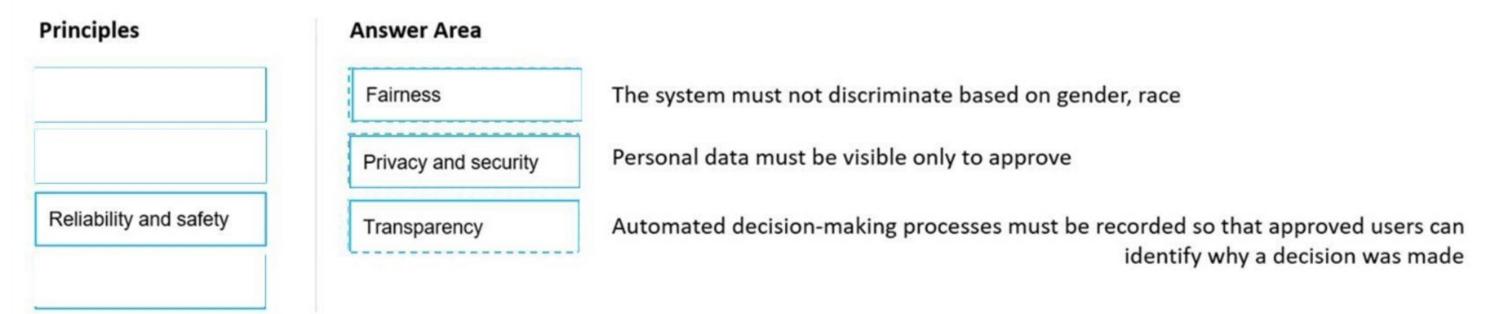
To answer, drag the appropriate principles from the column on the left to its requirement on the right. Each principle may be used once, more than once, or not at all. You may need to drag the split bar between panes or scroll to view content.

NOTE: Each correct selection is worth one point.

Select and Place:



Correct Answer:



Section:

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/4-guiding-principles

QUESTION 99

DRAG DROP

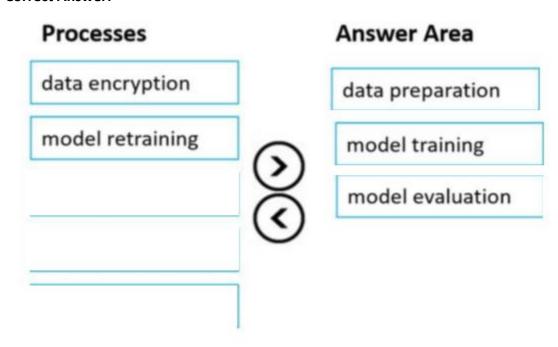
You plan to deploy an Azure Machine Learning model as a service that will be used by client applications.

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.

Select and Place:

data encryption model retraining model training data preparation model evaluation

Correct Answer:





Section:

Explanation:

Reference:

https://docs.microsoft.com/en-us/azure/machine-learning/concept-ml-pipelines

QUESTION 100

You are building an Al-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 Al-based algorithms for automated decision making

Correct Answer: B, C

Section:

Explanation:

Reference:

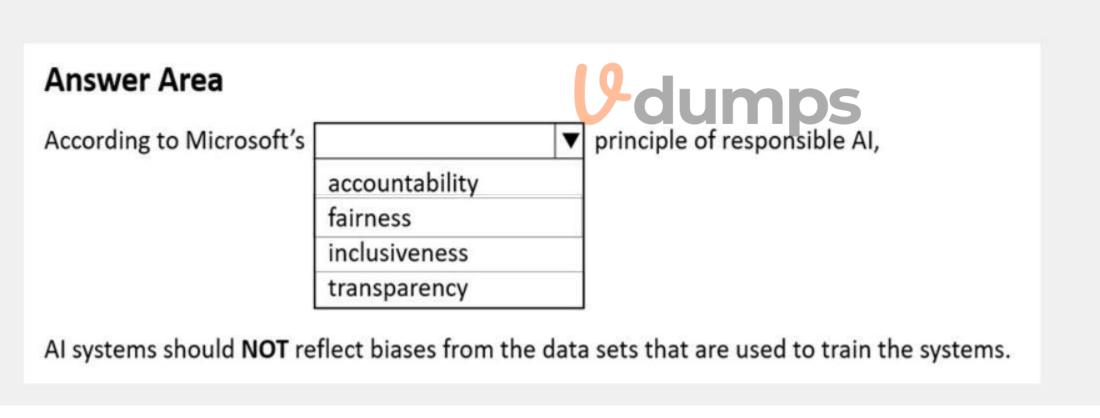
https://docs.microsoft.com/en-us/azure/cloud-adoption-framework/innovate/best-practices/trusted-ai https://docs.microsoft.com/en-us/learn/modules/responsible-ai-principles/3-implications-responsible-ai-practical

QUESTION 101

HOTSPOT

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

Hot Area:



Answer Area principle of responsible AI, According to Microsoft's accountability fairness inclusiveness transparency Al systems should NOT reflect biases from the data sets that are used to train the systems.

Section:

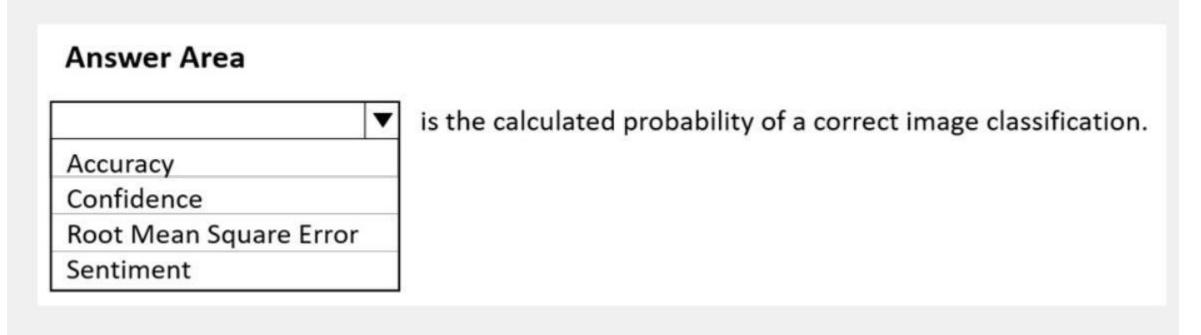
Explanation:



HOTSPOT

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

Hot Area:



Section:

Explanation:

Reference:

https://docs.microsoft.com/en-us/azure/cognitive-services/custom-vision-service/getting-started-build-a-classifier

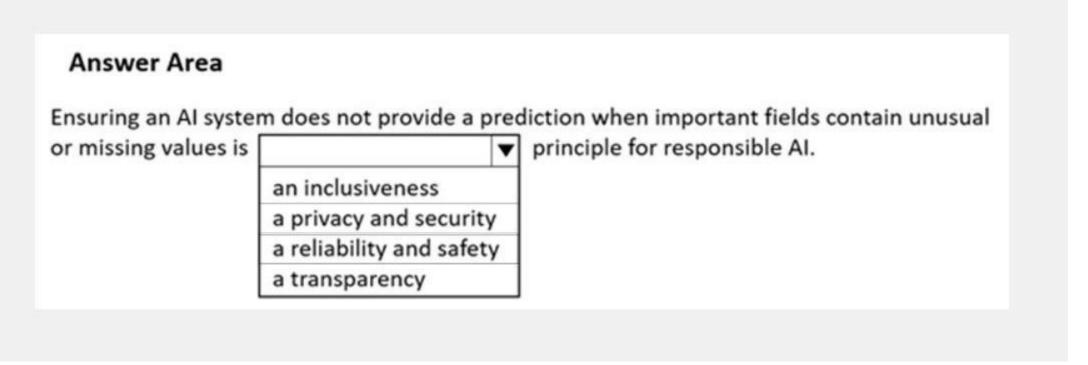
QUESTION 103

HOTSPOT

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



Hot Area:



Answer Area Ensuring an AI system does not provide a prediction when important fields contain unusual or missing values is an inclusiveness a privacy and security a reliability and safety a transparency

Section:

Explanation:

Reference:

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

QUESTION 104

HOTSPOT

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

Hot Area:



Answer Area:

Udumps



Explanation:

Reference:

https://docs.microsoft.com/en-us/azure/machine-learning/how-to-label-data

QUESTION 106

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. Face
- B. Form Recognizer
- C. Text Analytics
- D. Computer Vision

Correct Answer: A

Section:

Explanation:

Reference:

https://docs.microsoft.com/en-us/azure/cognitive-services/face/overview https://docs.microsoft.com/en-us/azure/cognitive-services/face/face-api-how-to-topics/howtodetectfacesinimage

QUESTION 107

In which two scenarios can you use the Form Recognizer service? Each correct answer presents a complete solution. NOTE: Each correct selection is worth one point.

- A. Identify the retailer from a receipt
- B. Translate from French to English
- C. Extract the invoice number from an invoice
- D. Find images of products in a catalog

Correct Answer: A, C

Section:

Explanation:

Reference:

https://docs.microsoft.com/en-us/azure/applied-ai-services/form-recognizer/overview?tabs=v2-1

QUESTION 108

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

Correct Answer: B

Section:

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

QUESTION 109

You build a QnA Maker bot by using a frequently asked questions (FAQ) page.

You need to add professional greetings and other responses to make the bot more user friendly.



What should you do?

- A. Increase the confidence threshold of responses
- B. Enable active learning
- C. Create multi-turn questions
- D. Add chit-chat

Correct Answer: D

Section:

Explanation:

Reference:

https://docs.microsoft.com/en-us/azure/cognitive-services/qnamaker/how-to/chit-chat-knowledge-base?tabs=v1

QUESTION 110

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

A product troubleshooting guide in a Microsoft Word document

A frequently asked questions (FAQ) list on a webpage

Which service should you use to process the documents?

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

Correct Answer: D

Section:

Explanation:

Reference:

https://docs.microsoft.com/en-us/azure/cognitive-services/QnAMaker/Overview/overview

QUESTION 111

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

Correct Answer: B

Section:

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

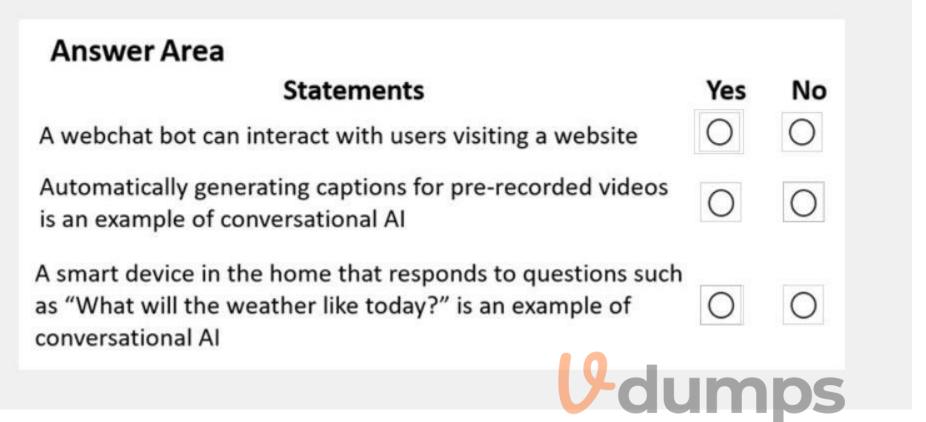
QUESTION 112



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.

Hot Area:



Answer Area:

Answer Area Statements A webchat bot can interact with users visiting a website Automatically generating captions for pre-recorded videos is an example of conversational Al A smart device in the home that responds to questions such as "What will the weather like today?" is an example of conversational Al

Explanation:

Reference:

https://docs.microsoft.com/en-us/azure/architecture/reference-architectures/ai/conversational-bot https://docs.microsoft.com/en-us/azure/bot-service/bot-builder-webchat-overview?view=azure-bot-service-4.0

QUESTION 113

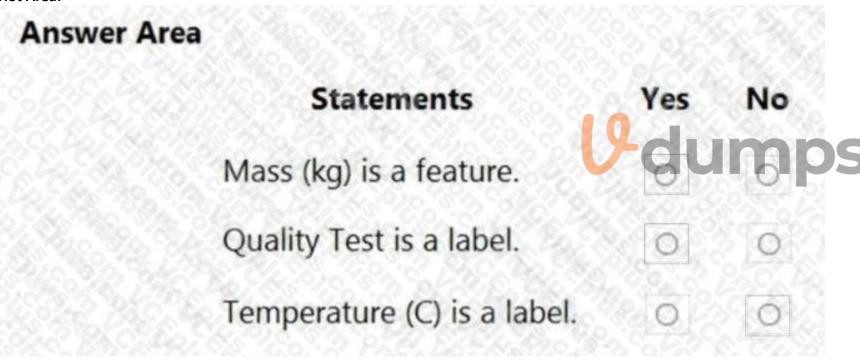
HOTSPOT

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.

Hot Area:



Answer Area Statements Yes No Mass (kg) is a feature. Quality Test is a label. Temperature (C) is a label.

Section:

Explanation:

Reference: https://docs.microsoft.com/en-us/azure/machine-learning/component-reference/filter-based-feature-selection

QUESTION 114

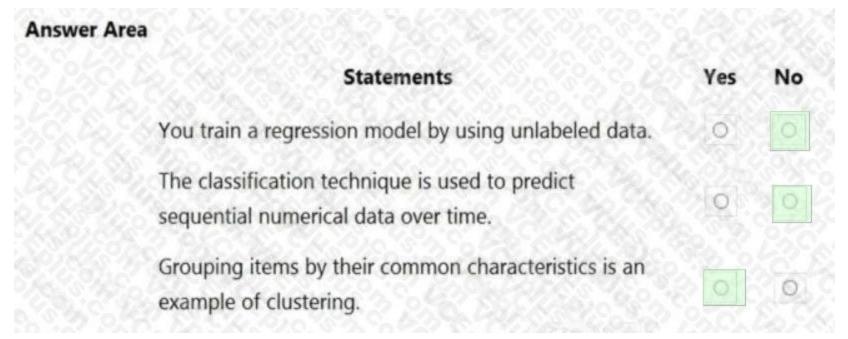
HOTSPOT

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



Hot Area:

Statements Yes No You train a regression model by using unlabeled data. The classification technique is used to predict sequential numerical data over time. Grouping items by their common characteristics is an example of clustering.



Explanation:

Reference:

https://docs.microsoft.com/en-us/learn/modules/create-regression-model-azure-machine-learning-designer/5-create-training-pipeline https://docs.microsoft.com/en-us/learn/modules/create-classification-model-azure-machine-learningdesigner/1-introduction https://docs.microsoft.com/en-us/learn/modules/create-classification-model-azure-machine-learningdesigner/1-introduction

QUESTION 115

Which two actions are performed during the data ingestion and data preparation stage of an Azure Machine Learning process? Each correct answer presents part of the solution. NOTE: Each correct selection is worth one point.

- A. Calculate the accuracy of the model.
- B. Score test data by using the model.
- C. Combine multiple datasets.
- D. Use the model for real-time predictions.
- E. Remove records that have missing values.

Correct Answer: C, E

Section: Explanation:

Reference: https://docs.microsoft.com/en-us/azure/machine-learning/concept-data-ingestion https://docs.microsoft.com/en-us/azure/architecture/data-science-process/prepare-data-ingestion https://docs.microsoft.com/en-us/azure/architecture/data-science-process/prepare-data-ingestion https://docs.microsoft.com/en-us/azure/architecture/data-science-process/prepare-data-ingestion https://docs.microsoft.com/en-us/azure/architecture/data-science-process/prepare-data-ingestion https://docs.microsoft.com/en-us/azure/architecture/data-science-process/prepare-data-ingestion https://docs.microsoft.com/en-us/azure/architecture/data-science-process/prepare-data-ingestion https://docs.microsoft.com/en-us/azure/architecture/data-science-process/prepare-data-ingestion-process/prepare-data-ingestion-process/prepare-data-ingestion-process/prepare-data-ingestion-process/prepare-data-ingestion-process/prepare-data-ingestion-process/prepare-data-ingestion-process/prepare-data-ingestion-process/prepare-data-ingestion-process/prepare-data-ingestion-process/prepare-data-ingestion-process/prepare-data-ingestion-process/prepare-data-ingestion-process/prepare-data-ingestion-process/prepare-data-ingestion-process/prepare-data-ingestion-process/prepare-data-ingestion-process/prepare-data-ingestion-process/prepare-data-ingestion-process/prepare-data-ingestion-process/prepare-data-ingestion-process/prepare-data-ingestion-process/prepare-data-ingestion-process/prepare-data-ingestion-process/prepare-data-ingestion-process/prepare-data-ingestion-process/prepare-data-ingestion-process/prepare-data-ingestion-process/prepare-data-ingestion-process/prepare-data-ingestion-process/prepare-data-ingestion-process/prepare-data-ingestion-process/prepare-data-ingestion-process/prepare-data-ingestion-process/prepare-data-ingestion-process/prepare-data-ingestion-process/prepare-data-ingestion-process/prepare-data-ingestion-process/prepare-data-ingestion-process/prepare-data-ingestion-process/prepare-data-ingestion-process/prepare-data-ingestion-process/prepa

QUESTION 116

HOTSPOT

Select the answer that correctly completes the sentence.

Hot Area:



Section.

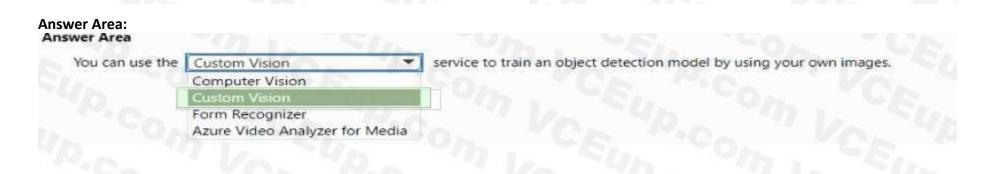
Explanation:

QUESTION 117

HOTSPOT

Select the answer that correctly completes the sentence.





Section:

Explanation:

QUESTION 118

Your company manufactures widgets.

You have 1.000 digital photos of the widgets.

You need to identify the location of the widgets within the photos. What should you use?

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

Correct Answer: B

Section:

QUESTION 119

HOTSPOT

Select the answer that correctly completes the sentence

Hot Area:

Answer Area



Answer Area:

Answer Area



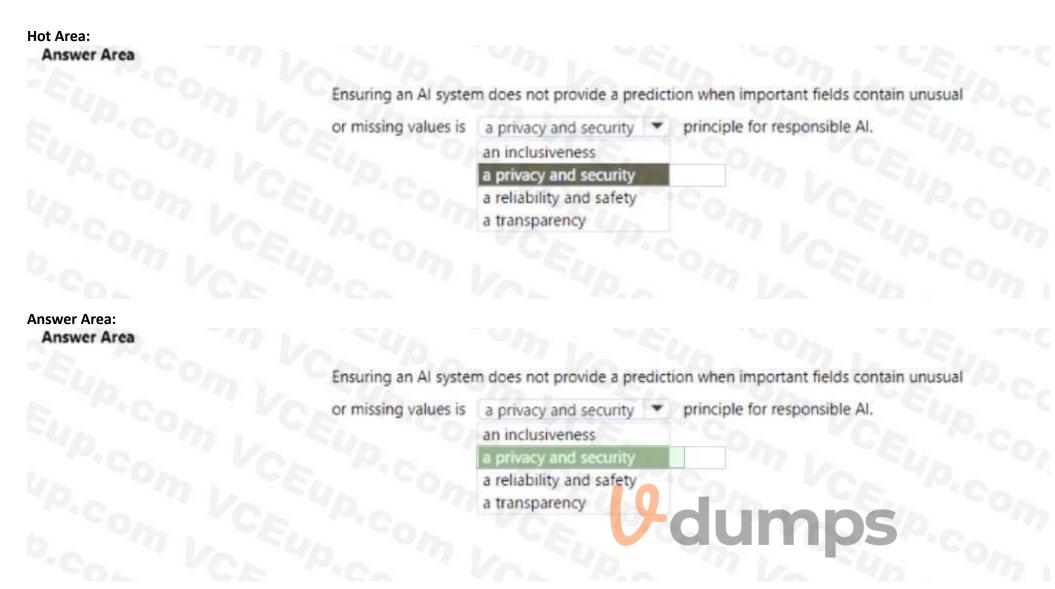
Section:

Explanation:

QUESTION 120

HOTSPOT

Select the answer that correctly completes the sentence



Explanation:

QUESTION 121

DRAG DROP

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.

Select and Place:





Correct Answer: Actions Evaluate the model against the original dataset. 3 ingest and prepare a dataset. Split the data randomly into training data and validation data. Train the model. (O Evaluate the model against the validation dataset. Section: **Explanation: QUESTION 122** HOTSPOT Select the answer that correctly completes the sentence. **Hot Area: Answer Area** models can be used to predict the sale price of auctioned items. Regression Classification Clustering Regression **Answer Area: Answer Area** Regression Classification Clustering Section: **Explanation:**

QUESTION 123

HOTSPOT

Select the answer that correctly completes the sentence.

Hot Area:

Answer Area

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

classification.

clustering.
regression.
classification.
regularization.

Answer Area:

Answer Area

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



classification.

clustering.
regression.

classification.
regularization.

Section:

Explanation:

QUESTION 124

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

Correct Answer: B, C

Section:

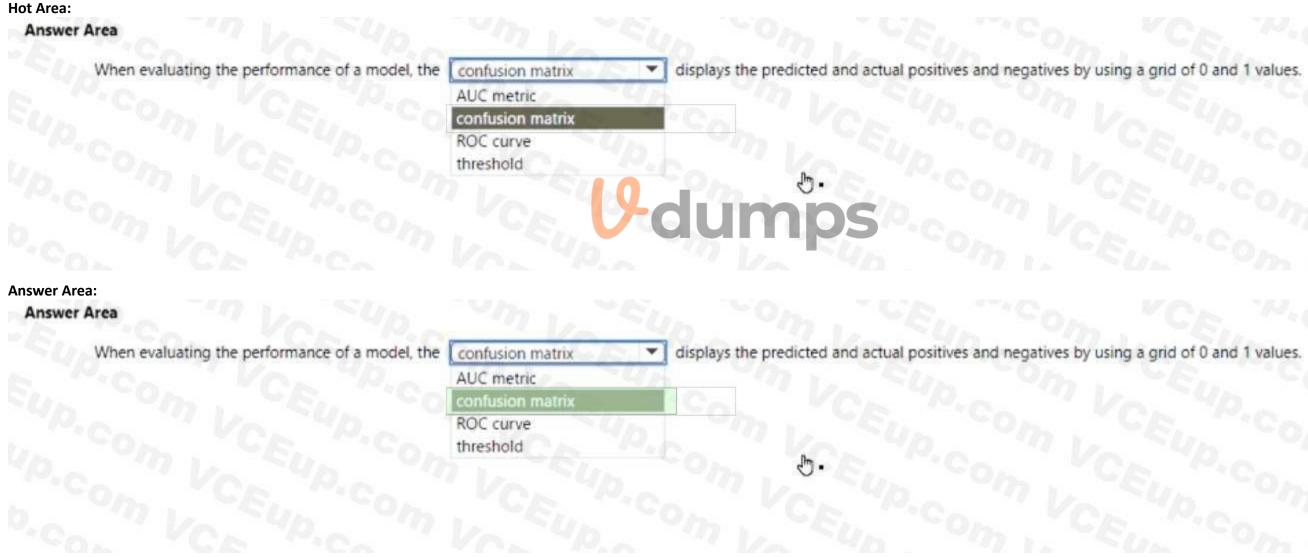
QUESTION 125

You have a website that includes customer reviews.

You need to store the reviews in English and present the reviews to users in their respective language by recognizing each users geographical location. Which type of natural language processing workload should you use? A. translation B. language modeling C. key phrase extraction D. speech recognition **Correct Answer: C** Section: **QUESTION 126**

HOTSPOT

Select the answer that correctly completes the sentence.



Section:

Explanation:

QUESTION 127

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

B. computer vision			
C. anomaly detection			
D. knowledge mining			
Correct Answer: C Section:			
QUESTION 128 You need to create a clustering model and	l evaluate the model by using Azure Machine Learning designer. What should you do?		
B. Split the original dataset into a datase	t for features and a dataset for labels. Use the features dataset for evaluation. It for training and a dataset for testing. Use the training dataset for evaluation. It for training and a dataset for testing. Use the testing dataset for evaluation. Index evaluation.		
Correct Answer: C Section:			
QUESTION 129 HOTSPOT For each of the following statements, sele Each correct selection is worth one point. Hot Area: Answer Area	ct Yes if the statement is True. Otherwise, select No. NOTE:		
	Statements	Yes	No
	A smart device in the home that responds to questions such as "When is my next appointment?" is an example of conversational Al.	0	5,70
	An interactive webchat feature on a company website can be implemented by using Azure Bot Service.	0 5	100
	Automatically generating captions for pre-recorded videos is an example of conversational Al.	0	0

A. natural language processing (NLP)

Answer Area			
	Statements	Yes	No
	A smart device in the home that responds to questions such as "When is my next appointment?" is an example of conversational Al.	OUS	-/0
	An interactive webchat feature on a company website can be implemented by using Azure Bot Service.	0 5	0
	Automatically generating captions for pre-recorded videos is an example of conversational Al.	0 .10	0
Section:			
Explanation:			
QUESTION 130 HOTSPOT			
For each of the following statements, se Each correct selection is worth one poin	lect Yes if the statement is true. Otherwise, select No. NOTE: t.		
Hot Area: Answer Area	Statements Statements	Yes	No
	A bot that responds to queries by internal users is an example of a natural language processing workload.	0 8	0
	A mobile application that displays images relating to an entered search term is an example of a natural language processing workload.	0	0
	A web form used to submit a request to reset a password is an example of a natural language processing workload.	49.10	0

Answer Area Statements A bot that responds to queries by internal users is an example of a natural language processing workload. A mobile application that displays images relating to an entered search term is an example of a natural language processing workload. A web form used to submit a request to reset a password is an example of a natural language processing workload. Section: **Explanation: QUESTION 131** HOTSPOT To complete the sentence, select the appropriate option in the answer area. **Hot Area: Answer Area** An Al solution that helps photographers take better notographs by providing feedback on exposure, noise, and occlusion is an example of facial detection. analysis. detection. recognition.

An Al 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.

Section:

Explanation:

QUESTION 132

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

- A. Al systems must use only publicly available data.
- B. Al systems must protect the interests of the company
- C. Al systems must be understandable.
- D. Al systems must keep personal details public

Correct Answer: C

Section:

QUESTION 133

Which type of natural language processing (NLP) entity is used to identify a phone number?

- A. regular expression
- B. machine-learned
- C. list
- D. Pattern-any

Correct Answer: C

Section:

QUESTION 134

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

- A. Face
- B. Custom Vision
- C. Computer Vision



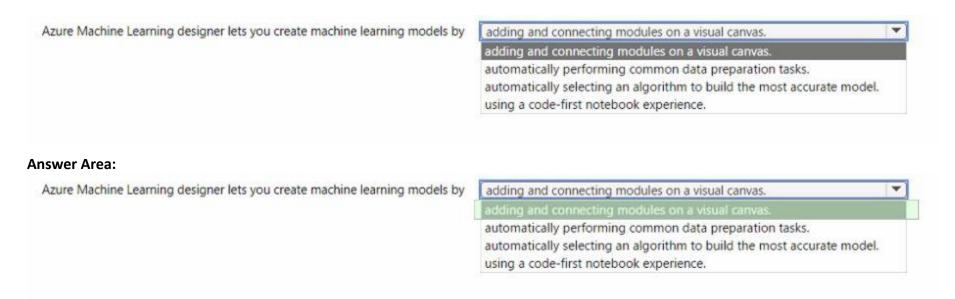
D. Form Recognizer **Correct Answer: C** Section: **QUESTION 135** HOTSPOT For each of the following statements. select Yes if the statement is true. Otherwise, select No. NOTE; Each correct selection is worth one point Hot Area: Statements Yes No The Custom Vision service can be used to detect objects in an image. The Custom Vision service requires that you provide your own data to train the model. The Custom Vision service can be used to analyze video files. **Answer Area:** Statements The Custom Vision service can be used to detect objects in an image. The Custom Vision service requires that you provide your own data to train the model. The Custom Vision service can be used to analyze video files. Section: **Explanation: QUESTION 136** You need to identify street names based on street signs in photographs. Which type of computer vision should you use? A. object detection B. optical character recognition (OCR) C. image classification D. facial recognition **Correct Answer: C** Section:

QUESTION 137

HOTSPOT

Select the answer that correctly completes the sentence.

Hot Area:



Explanation:

QUESTION 138

You need to reduce the load on telephone operators by implementing a Chabot to answer simple questions with predefined answers. Which two Al services should you use to achieve the goal? Each correct answer presents part of the solution.

NOTE: Each correct selection is worth one point.

- A. Azure 8ol Service
- B. Azure Machine Learning
- C. Translator
- D. Language Service

Correct Answer: A, D

Section:

QUESTION 139

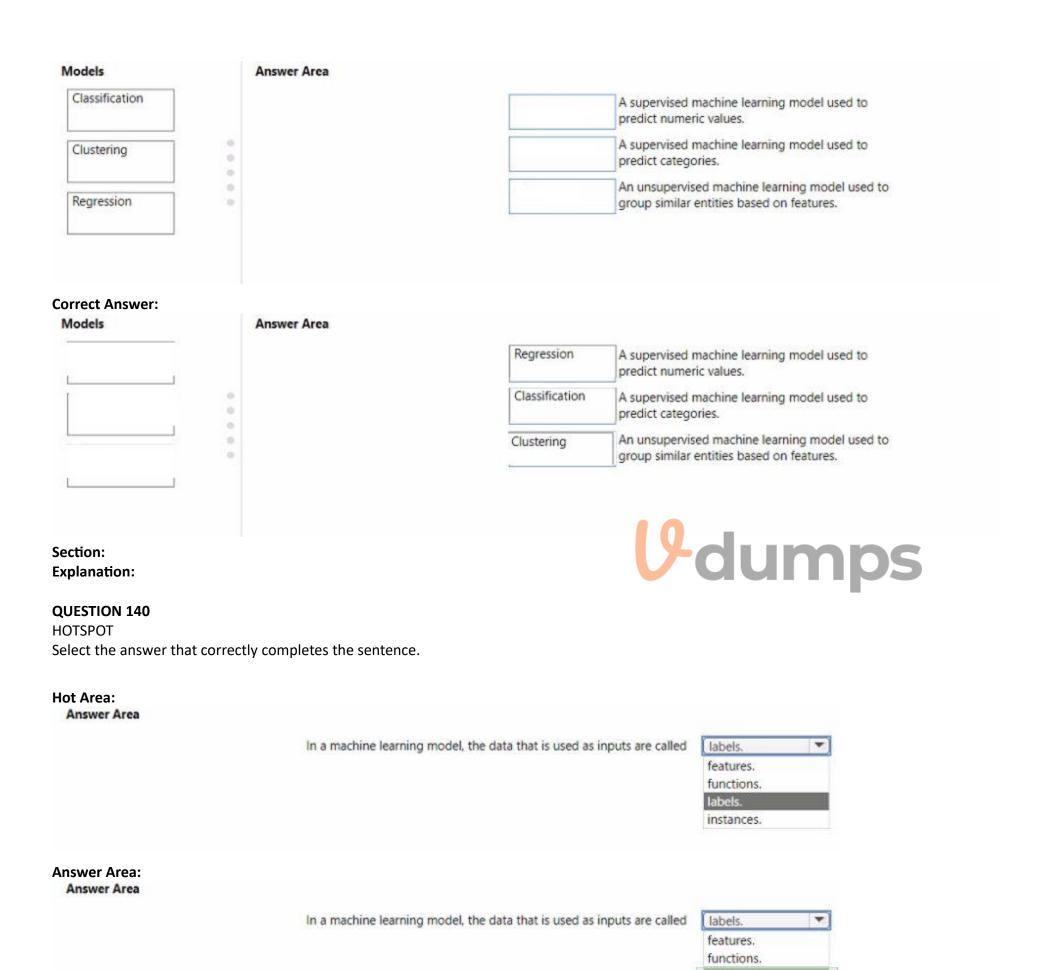
DRAG DROP

Match the machine learning models to the appropriate deceptions.

To answer, drag the appropriate model from the column on the left to its description on the right Each model may be used once, more than once, or not at all. NOTE: Each correct match is worth one point.

Select and Place:





instances.

Explanation:

QUESTION 141

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.

Correct Answer: D

Section:

QUESTION 142

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

Correct Answer: C

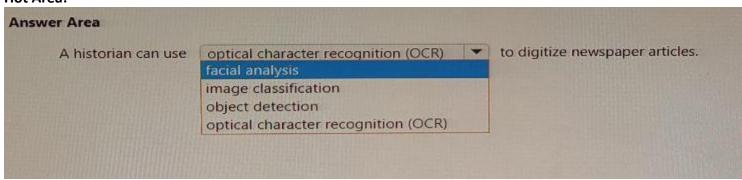
Section:

QUESTION 143

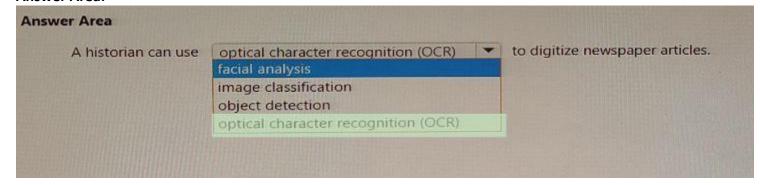
HOTSPOT

Select the answer that correctly completes the sentence.

Hot Area:



Answer Area:



Section:



Explanation:

QUESTION 144

HOTSPOT

Select the answer that correctly completes the sentence.

Hot Area:

110t/iicui	
Answer Area	
	When building a regression model, labels must have a data type of boolean. datetime. numeric. numeric. text.
Answer Area:	
Answer Area	
	When building a regression model, labels must have a data type of boolean. datetime. text. □ numeric. □ boolean. datetime. □ text.
	U -dumps
Section:	

QUESTION 145

Explanation:

You have a bot that identifies the brand names of products in images of supermarket shelves. Which service does the bot use?

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

Correct Answer: B

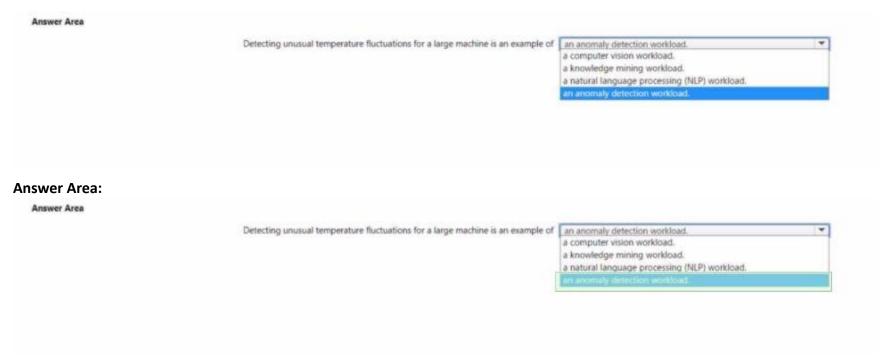
Section:

QUESTION 146

HOTSPOT

Select the answer that correctly completes the sentence.

Hot Area:



Explanation:

QUESTION 147

HOTSPOT

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

* Identifies the location of the birds in the image

* Identifies the species of the birds in the image

Which type of computer vision does each task use? To answer, select the appropriate options in the answer area. NOTE: Each correct selection is worth one point.

Hot Area:



Section:

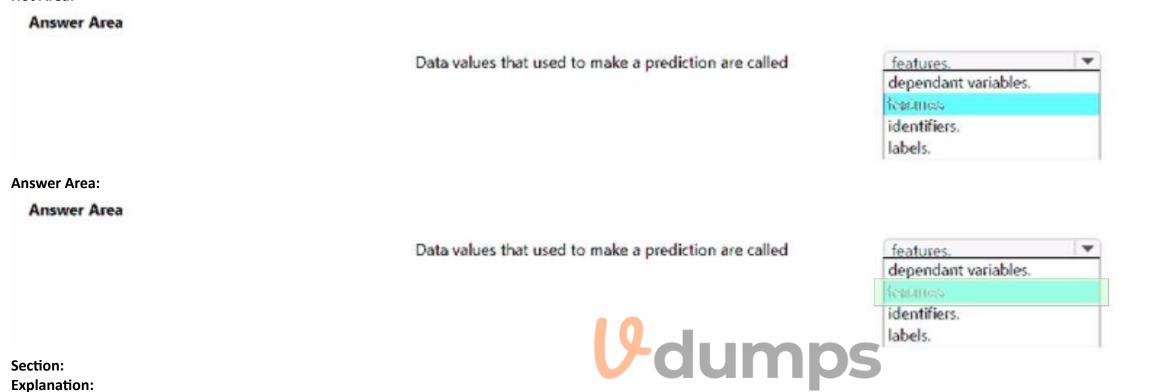
Explanation:

QUESTION 148

HOTSPOT

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

Hot Area:

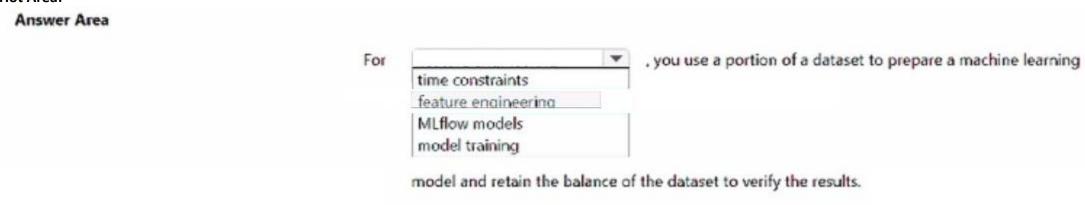


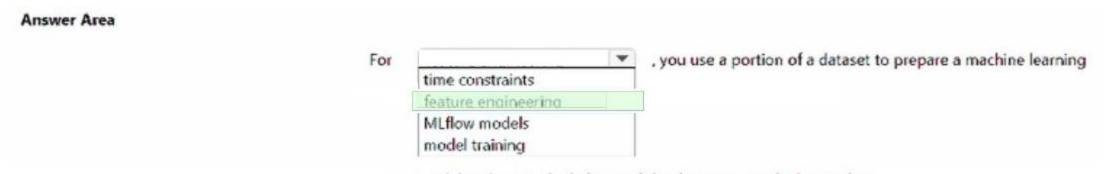
QUESTION 149

HOTSPOT

Select the answer that correctly completes the sentence.

Hot Area:





model and retain the balance of the dataset to verify the results.

Section:

Explanation:

QUESTION 150

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

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

Correct Answer: C

Section:

[©]dumps

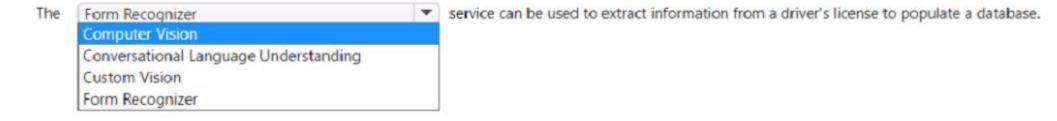
QUESTION 151

HOTSPOT

Select the answer that correctly completes the sentence.

Hot Area:

Answer Area





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

Section:

Explanation:

QUESTION 152

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.

Correct Answer: D

Section:



QUESTION 153

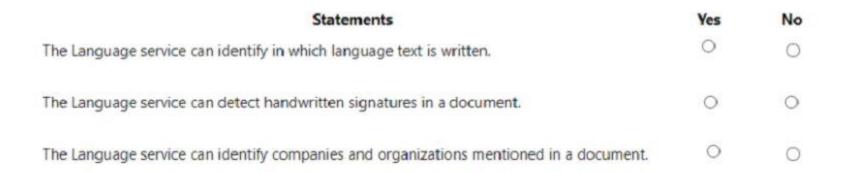
HOTSPOT

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

NOTE; Each correct selection is worth one point.

Hot Area:

Answer Area



Statements	Yes	No
The Language service can identify in which language text is written.	0	0
The Language service can detect handwritten signatures in a document.	0	0
The Language service can identify companies and organizations mentioned in a document.	0	0

Section:

Explanation:

QUESTION 154

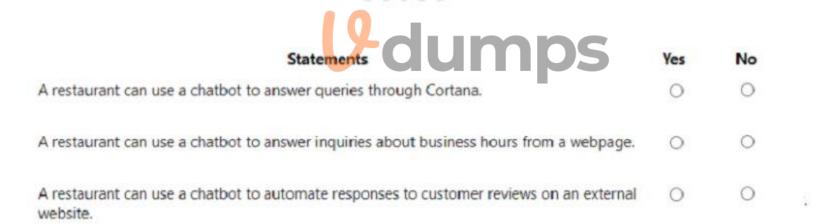
HOTSPOT

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

NOTE; Each correct selection is worth one point.

Hot Area:

Answer Area



Statements	Yes	No	
A restaurant can use a chatbot to answer queries through Cortana.	0	0	
A restaurant can use a chatbot to answer inquiries about business hours from a webpage.	0	0	
A restaurant can use a chatbot to automate responses to customer reviews on an external website	0	0	

Section:

Explanation:

QUESTION 155

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.

Hot Area:

Answer Area



Statements	Yes	No
Chatbots can only be built by using custom code.	0	0
The Azure Bot Service provides services that can be used to host conversational bots.	0	0
Bots built by using the Azure Bot Service can communicate with Microsoft Teams users.	0	0

Statements
Chatbots can only be built by using custom code.

The Azure Bot Service provides services that can be used to host conversational bots.

Bots built by using the Azure Bot Service can communicate with Microsoft Teams users.

Section:

Explanation:

QUESTION 156

HOTSPOT

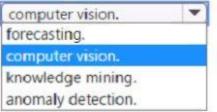
Select the answer that correctly completes the sentence.

Hot Area:

Answer Area



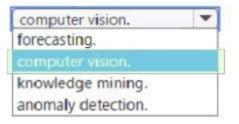
Counting the number of animals in an area based on a video feed is an example of



Answer Area:

Answer Area

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



Section:

Explanation:

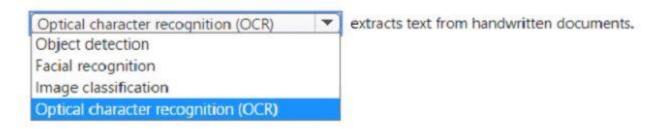
QUESTION 157

HOTSPOT

Select the answer that correctly completes the sentence.

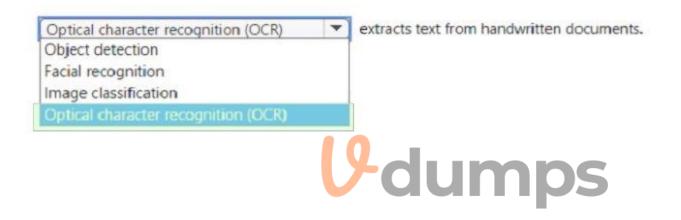
Hot Area:

Answer Area



Answer Area:

Answer Area



Section:

Explanation:

QUESTION 158

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

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

Correct Answer: B

Section:

QUESTION 159

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

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

Correct Answer: A Section: QUESTION 160 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

Correct Answer: C, D

Section:

QUESTION 161

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

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

Correct Answer: C

Section:

QUESTION 162

HOTSPOT

Select the answer that correctly completes the sentence.

Hot Area:

Answer Area



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





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

Section:

Explanation:

QUESTION 163

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

Correct Answer: B, D

Section:

U-dumps

QUESTION 164

You need to create a model that labels a collection of your personal digital photographs. Which Azure Al service should you use?

- A. Azure Al Language
- B. Azure Al Computer Vision
- C. Azure Al Document Intelligence
- D. Azure Al Custom Vision

Correct Answer: B

Section:

QUESTION 165

You need to build an app that will identify celebrities in images. Which service should you use?

- A. Azure OpenAl Service
- B. Azure Machine Learning
- C. conversational language understanding (CLU)
- D. Azure Al Vision

Correct Answer: D

Section:

QUESTION 166

You have an app that identifies the coordinates of a product in an image of a supermarket shelf. Which service does the app use?

- A. Azure Al Custom Vision object detection
- B. Azure Al Computer Vision Read
- C. Azure Al Computer Vision optical character recognition (OCR)
- D. Azure Al Custom Vision classification

Correct Answer: A

Section:

QUESTION 167

You need to convert receipts into transactions in a spreadsheet. The spreadsheet must include the date of the transaction, the merchant the total spent and any taxes paid. Which Azure Al service should you use?

- A. Face
- B. Azure Al Language
- C. Azure Al Document Intelligence
- D. Azure Al Custom Vision

Correct Answer: C

Section:

QUESTION 168

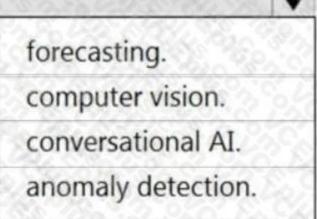
HOTSPOT

Select the answer that correctly completes the sentence.

Hot Area:

Answer Area

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





Answer Area

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

forecasting.

computer vision.

conversational AI.

anomaly detection.

Section:

Explanation:

Reference: https://docs.microsoft.com/en-us/azure/cognitive-services/computer-vision/overview https://docs.microsoft.com/en-us/azure/cognitive-services/computer-vision/intro-to-spatial-analysis-public-preview

QUESTION 169

You have a knowledge base of frequently asked questions (FAQ). 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 purchases.
- B. Register customer complaints.
- C. Answer questions from multiple users simultaneously.
- D. Provide customers with return materials authorization (RMA) numbers.

Correct Answer: C

Section:

Explanation

Reference: https://docs.microsoft.com/en-us/azure/cognitive-services/qnamaker/overview/overview

QUESTION 170

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.

Hot Area:



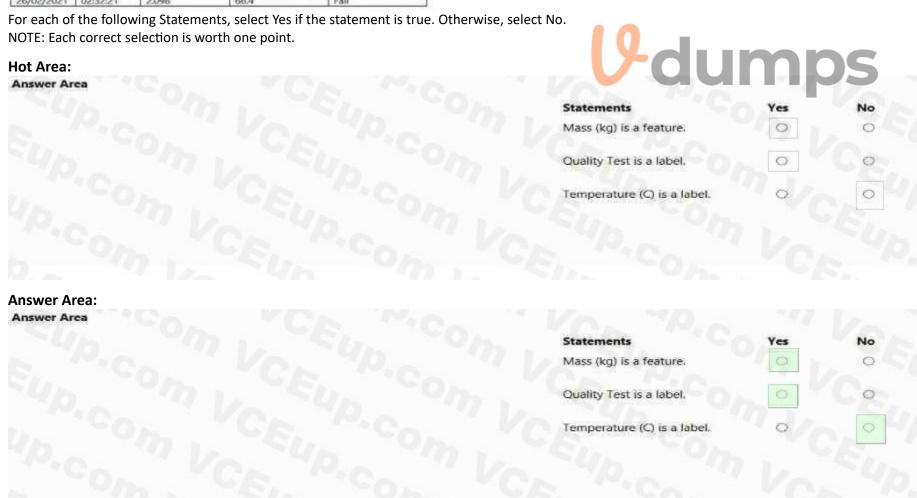
Explanation:

QUESTION 171

HOTSPOT

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



Section:

Explanation:

QUESTION 172

HOTSPOT

Select the answer that correctly completes the sentence.

Hot Area:



QUESTION 173

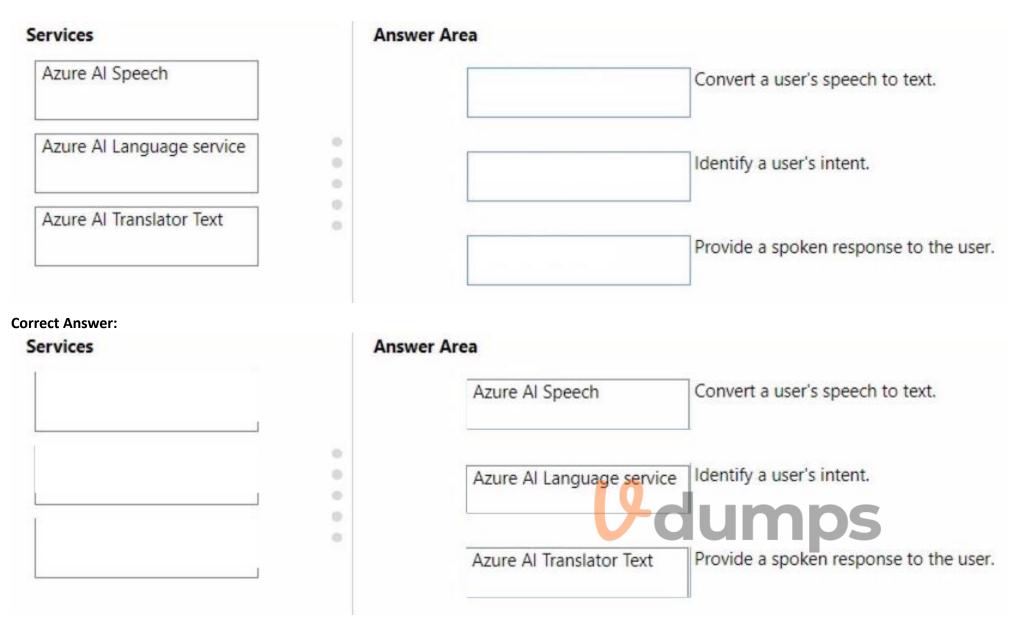
DRAG DROP

You plan to use Azure Cognitive Services to develop a voice controlled personal assistant app.

Match the Azure Cognitive Services to the appropriate tasks.

To answer, drag the appropriate service from the column on the left to its description on the right Each service may be used once, more than once, or not at all. NOTE: Each correct selection is worth one point.

Select and Place:



Explanation:

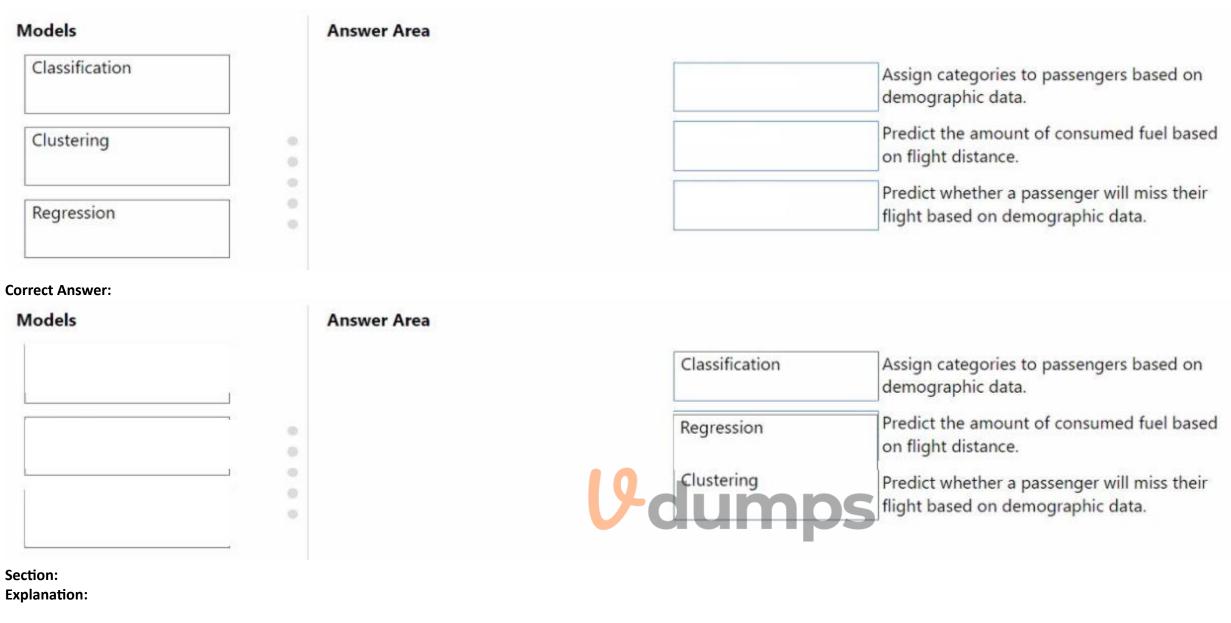
QUESTION 174

DRAG DROP

Match the tasks to the appropriate machine learning models.

To answer, drag the appropriate model from the column on the left to its scenario on the right. Each model may be used once, more than once, or not at all. NOTE: Each correct selection is worth one point.

Select and Place:



QUESTION 175

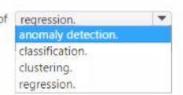
HOTSPOT

Select the answer that correctly completes the sentence.

Hot Area:

Answer Area

For a vehicle, predicting the miles per gallon based on weight, engine power, and other factors is an example of regression.



For a vehicle, predicting the miles per gallon based on weight, engine power, and other factors is an example of anomaly detection. classification. clustering. tegression.

Section:

Explanation:

QUESTION 176

Which two resources can you use to analyze code and generate explanations of code function and code comments? Each correct answer presents a complete solution. NOTE: Each correct answer is worth one point.

- A. the Azure OpenAI DALL-E model
- B. the Azure OpenAl Whisper model
- C. the Azure OpenAI GPT-4 model
- D. the GitHub Copilot service

Correct Answer: A, C

Section:

QUESTION 177

HOTSPOT

Select the answer that correctly completes the sentence.



Hot Area:

Answer Area			
	Generating text that describes an image is an example of	image classification.	-
		facial detection.	
	in	image classification.	
		object detection.	
		optical character recognition (OCR).	
Answer Area:			
Answer Area: Answer Area			
	Generating text that describes an image is an example of	image classification.	-
	Generating text that describes an image is an example of	facial detection.	-
	Generating text that describes an image is an example of		•
	Generating text that describes an image is an example of	facial detection.	· ·

Section:

Explanation:

QUESTION 178

You need to count the number of animals in a photograph. Which type of computer vision should you use?

- A. facial detection
- B. image classification

C. optical character recognition (OCR)

D. object detection

Correct Answer: D

Section:

