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

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Exam A

QUESTION 1

DRAG DROP

Match the facial recognition tasks to the appropriate questions.

To answer, drag the appropriate task from the column on the left to its question 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:

| Tasks | Answer Area | |
|-------------------------|----------------|--|
| grouping | Task | Do two images of a face belong to the same person? |
| identification | Task | Does this person look like other people? |
| similarity | Task | Do all the faces belong together? |
| verification | Task | Who is this person in this group of people? |
| orrect Answer: Tasks | Answer Area | 9 -dumps |
| | verification | Do two images of a face belong to the same person? |
| | similarity | Does this person look like other people? |
| | grouping | Do all the faces belong together? |
| | identification | Who is this porcen in this group of pooplo? |

Section:

Explanation:

Box 1: verification

Face verification: Check the likelihood that two faces belong to the same person and receive a confidence score.

Box 2: similarity

Box 3: Grouping

Box 4: identification

Face detection: Detect one or more human faces along with attributes such as: age, emotion, pose, smile, and facial hair, including 27 landmarks for each face in the image. Reference:

VICED

https://azure.microsoft.com/en-us/services/cognitive-services/face/#features

QUESTION 2 DRAG DROP

Match the types of computer vision 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:

| | Answer Area | |
|-------------------------------------|--|---|
| Facial recognition | Workload Type | Identify celebrities in images. |
| Image classification | Workload Type | Extract movie title names from movie poster images. |
| Object detection | Workload Type | Locate vehicles in images. |
| Optical character recognition (OCR) | | CEnlus |
| | | |
| Workloads Types | Answer Area | |
| Workloads Types | Answer Area | Identify colobrition in imagon |
| Workloads Types | Answer Area Facial recognition | Identify celebrities in images. |
| Workloads Types | Answer Area Facial recognition Optical character recognition (OCR) | Identify celebrities in images. Extract movie title names from movie poster images. |
| Workloads Types | Answer Area Facial recognition Optical character recognition (OCR) Object detection | Identify celebrities in images. Extract movie title names from movie poster images. Locate vehicles in images. |

Section:

Explanation:

Box 1: Facial recognition

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

Box 2: OCR

Box 3: Objection detection

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

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

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

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

QUESTION 3

DRAG DROP

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

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

Select and Place:

| Normoada Types | Answer Area | |
|--|---|--|
| Entity recognition | Workload Type | Extracts persons, locations, and organizations from the text |
| Key phrase extraction | Workload Type | Evaluates text along a positive- negative scale |
| Language modeling | Workload Type | Returns text translated to the specified target language |
| Sentiment analysis | CEPIUS | |
| Natural language processing | | |
| Translation | | - |
| Speech recognition and speech synthe | sis | CEplus |
| | | |
| Norkloads Types | Answer Area Entity recognition | Extracts persons, locations, and organizations from the text |
| Key phrase extraction | Answer Area Entity recognition .com Sentiment analysis | Extracts persons, locations, and organizations from the text Evaluates text along a positive- negative scale |
| Norkloads Types Key phrase extraction Language modeling | Answer Area Entity recognition Sentiment analysis Translation | Extracts persons, locations, and organizations from the text Evaluates text along a positive- negative scale Returns text translated to the specified target language |
| Workloads Types Key phrase extraction Language modeling Natural language processing | Answer Area Entity recognitioncom Sentiment analysis Translation | Extracts persons, locations, and organizations from the text Evaluates text along a positive- negative scale Returns text translated to the specified target language |
| Workloads Types Key phrase extraction Language modeling Natural language processing Speech recognition and speech synthe | Answer Area Entity recognitioncom Sentiment analysis Translation | Extracts persons, locations, and organizations from the text Evaluates text along a positive- negative scale Returns text translated to the specified target language |

Section:

Explanation:

Box 1: Entity recognition

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. Box 2: Sentiment analysis Sentiment Analysis is the process of determining whether a piece of writing is positive, negative or neutral.

Box 3: Translation

Using Microsoft's Translator text API

This versatile API from Microsoft can be used for the following: Translate text from one language to another.

Transliterate text from one script to another.

Detecting language of the input text.

Find alternate translations to specific text.

Determine the sentence length.

Reference:

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

QUESTION 4

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:

| API Features | Answer Area | |
|-----------------------|-------------------------|---|
| Entity recognition | API Feature | Understand how upset a customer is based on the text contained in the support ticket. |
| Key phrase extraction | API Feature | Summarize important information from the support OS |
| Language detection | API Feature | Extract key dates from the support ticket. |
| Sentiment analysis | | CEplus |
| orrect Answer: | | .com |
| API Features | Answer Area | |
| CEDIU | Sentiment analysis | Understand how upset a customer is based on the text contained in the support ticket. |
| |] Key phrase extraction | Summarize important information from the support ticket. |
| Language detection | Entity recognition | Extract key dates from the support ticket. |
| | 1 | |

Section:

Explanation:

Box1: Sentiment analysis

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

CEplus

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 5

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:

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

QUESTION 6

HOTSPOT

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

Hot Area:

Answer Area

| | • |
|------------------------|---|
| Accuracy | |
| Confidence | |
| Root Mean Square Error | |
| Sentiment | |

is the calculated probability of a correct image classification.



| | ▼ |
|-----------------------|---|
| Accuracy | |
| Confidence | |
| Root Mean Square Erro | r |
| Sentiment | |

is the calculated probability of a correct image classification.

Section:

Explanation:

Reference:

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

QUESTION 7

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



principle for responsible AI.

Hot Area:

Answer Area

or missing values is

Ensuring an AI system does not provide a prediction when important fields contain unusual

an inclusiveness
 a privacy and security
 a reliability and safety

a transparency



Ensuring an AI system does not provide a prediction when important fields contain unusual

or missing values is

principle for responsible AI.



Explanation:

Reference:

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

an inclusiveness

a transparency

a privacy and security

a reliability and safety

QUESTION 8

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

Hot Area:

| Answer Area | |
|--|----------------------|
| Ensuring that the numeric variables in training data are on a similar scale is an example of | |
| | data ingestion. |
| | feature engineering. |
| | feature selection. |

Answer Area:

V-dumps

model training.

| insuring that the numeric variables in training data are on a similar scale is an example of | |
|--|----------------------|
| | data ingestion. |
| | feature engineering. |
| | feature selection. |
| | model training. |

Section:

Explanation:

Reference:

https://docs.microsoft.com/en-us/azure/architecture/data-science-process/create-features

QUESTION 9

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 |
|--|-----|----|
| Object detection can identify the location of a damaged product in an image. | 0 | 0 |
| Object detection can identify multiple instances of a damaged product in an image. | 0 | 0 |
| Object detection can identify multiple types of damaged products in an image. | 0 | 0 |

Answer Area:



Statements

Object detection can identify the location of a damaged product in an image. Object detection can identify multiple instances of a damaged product in an image. Object detection can identify multiple types of damaged products in an image.

Section: Explanation:

QUESTION 10 HOTSPOT To complete the sentence, select the appropriate option in the answer area.

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

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

Answer Area: Answer Area

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

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

Section: Explanation:

QUESTION 11

You have an Al solution that provides users with the ability to control smart devices by using verbal commands. Which two types of natural language processing (NLP) workloads does the solution use? Each correct answer presents part of the solution. NOTE: Each correct selection is worth one point.

- A. text-to-speech
- B. translation
- C. language modeling
- D. key phrase extraction
- E. speech-to-text

Correct Answer: C, D Section:

QUESTION 12 HOTSPOT Select the answer that correctly completes the sentence

Hot Area:





ų





Section: Explanation:

QUESTION 13

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 14 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 |
|--|----------|----------------|
| 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 |
| Area: | -du | mp |
| Area: Answer Area Statements | -du | mp |
| Area: Answer Area Statements | Yes | No |
| Area: Answer Area Statements A restaurant can use a chatbot to empower customers to make reservations by using a website or an app. | Yes | No O |
| Area: Answer Area Statements A restaurant can use a chatbot to empower customers to make reservations by using a website or an app. A restaurant can use a chatbot to answer inquiries about business hours from a webpage. | Yes O | No O |
| Area: Answer Area Statements A restaurant can use a chatbot to empower customers to make reservations by using a website or an app. A restaurant can use a chatbot to answer inquiries about business hours from a webpage. A restaurant can use a chatbot to automate responses to customer reviews on an external website. | Yes O | No 0 |

Reference:

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

QUESTION 15

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 16

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 17

HOTSPOT

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



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

Section: Explanation:

Reference:

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

QUESTION 18

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 19

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 20

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 21

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. 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 22

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 23

What is a use case for classification?



- 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 24

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 25

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 26

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 27

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 28

You have the process shown in the following exhibit.



| Chat bot | 0 | Request 2 | |
|---|-----|--|--|
| How do I program matically update my Knowledge Base? | You | (| s":[o I programmatically update my Knowledge Base?" |
| -You can use our REST APIs to manage your Knowledge Base. See here for details: https://aka.ms/kb-info | • | 1. *answer*: 1 *score*: 1 *id*: 18, *source*: 1 *source*: 1 | "You can use our REST APIs to manage your know 00.0, "Custom Editorial", |
| Type your message | Q | ("name" "value" } | ": "category". ': "api" |
| | | , ¹ | |

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 29

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 semistructured 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 30

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:

QUESTION 31

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 32

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.





Answer Area:



| There are [answer choice] correctly predicted positives. | • |
|--|--------|
| | 5 |
| | 11 |
| | 1,033 |
| CEplus | 13,951 |
| There are [answer choice] false negatives. | • |
| | 5 |
| | 11 |
| | 1,033 |
| | 40.004 |

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Section:

Explanation:

Box 1: 11

| | Predicted | |
|--------------|-----------|----------|
| | Positive | Negative |
| Actual True | ТР | 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 33

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:

| The second se | | |
|--|----------|------|
| 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. | ĈEp | olus |
| Answer Area: | | |
| Answer Area | | |
| C E D LUC | | |
| CEPIUS Statements | Yes | No |
| Forecasting housing prices based on historical data is an example of anomaly detection. | Yes | No |
| Forecasting housing prices based on historical data is an example of anomaly detection. | Yes O | No |
| Statements Forecasting housing prices based on historical data is an example of anomaly detection. Identifying suspicious sign-ins by looking for deviations from usual patterns is an example of anomaly detection. Predicting whether a patient will develop diabetes based on the patient's medical history is an example of anomaly detection. | Yes | |

Explanation:

QUESTION 34

HOTSPOT

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

Hot Area:



The handling of unusual or missing values provided to an AI system is a consideration

for the Microsoft principle for responsible Al.

| inclusiveness | Indus |
|------------------------|--------|
| privacy and security | .com |
| reliability and safety | |
| transparency | CEplus |

Answer Area:

V-dumps



The handling of unusual or missing values provided to an AI system is a consideration

| for the Microsoft | · · · · · · · · · · · · · · · · · · · | principle for responsible Al. |
|-------------------|---------------------------------------|-------------------------------|
| | inclusiveness | Folus |
| | privacy and security | com |
| | reliability and safety | |
| | transparency | |

Section: Explanation:

QUESTION 35

HOTSPOT

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

Hot Area:

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



Answer Area:

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

Section:

Explanation:

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

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

QUESTION 36

HOTSPOT

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

Answer Area CEPIUS

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

image is an example of

| image classification. |
|-----------------------------------|
| object detection. |
| optical character recognizer (OCR |
| semantic segmentation. |

Answer Area:

Answer Area Scepius

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

image is an example of

| image classification. | |
|--------------------------------|-------|
| object detection. | |
| optical character recognizer (| OCR). |
| semantic segmentation. | |

Section:

Explanation:

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

QUESTION 37

HOTSPOT

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

Hot Area:



is used to generate additional features.

| Feature engineering | CENTRE |
|---------------------|--------|
| Feature selection | CEPIUS |
| Model evaluation | |
| Model training | |
| | CEplus |

Answer Area:

Model Model



| • | is used to generate additional features. |
|---|--|
|---|--|

| eature engineering 💭 | CE-111- |
|----------------------|---------|
| eature selection | CEPIUS |
| Nodel evaluation | |
| Nodel training | |
| | |

Section:

Explanation:

Reference:

https://docs.microsoft.com/en-us/azure/machine-learning/team-data-science-process/create-features

QUESTION 38

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 | | | du | |
|--------------------------------------|---|------------------------------------|-----|----|
| | Statements | | Yes | No |
| Organizing docu contained in the | uments into groups based on similariti documents is an example of clusterin | es of the text g. | 0 | 0 |
| Grouping simila results is an exa | r patients based on symptoms and dia imple of clustering. | agnostic test | 0 | 0 |
| Predicting whet allergy symptom | her a person will develop mild, modera ns based on pollen count is an exampl | ate, or severe e of clustering. | 0 | 0 |

| 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 |
| | | |

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

QUESTION 39

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:

be used to identify relationships in a dataset

| | Statements | Yes | N |
|--|---------------------------------------|-----|---|
| A validation set includes the set to train a mode. | of input examples that will be used | 0 | C |
| A validation set can be used to predicts labels. | determine how well a model | 0 | C |
| A validation set can be used to used to train the model. | verify that all the training data was | 0 | C |

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

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: Yes

A validation dataset is a sample of data that is used to give an estimate of model skill while tuning model's hyperparameters. Box 3: No

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

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

QUESTION 40

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:

| Answe | r Area | | |
|-------|--|-----|----|
| | Statements | Yes | No |
| | You can use the Translator service to translate text between languages. | 0 | 0 |
| | You can use the Translator service to detect the language of a given text. | 0 | 0 |
| | You can use the Translator service to transcribe audible speech into text. | 0 | 0 |

| Statements | Yes | N |
|---|-----|---|
| You can use the Translator service to translate text between languages. | 0 | C |
| You can use the Translator service to detect the language of a given text. | 0 | C |
| You can use the Translator service to transcribe audible speech into text. | 0 | C |

QUESTION 41

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

DRAG DROP

Reference:

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 42

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 43

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 44

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 AI
- 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 45

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:



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

identify why a decision was made

identify why a decision was made

QUESTION 46

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:



V-dumps

Section:

Explanation:

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

QUESTION 47

You are building an AI-based app. You need to ensure that the app uses the principles for responsible AI. Which two principles should you follow? Each correct answer presents part of the solution. NOTE: Each correct selection is worth one point.

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

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 48

HOTSPOT

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

Hot Area:



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



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

Section:

Explanation:

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

HOTSPOT

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

Hot Area:



Data values that influence the prediction of a model are called







Data values that influence the prediction of a model are called

| | dependant |
|--------|--------------|
| CEplus | features. |
| COIN . | identifiers. |
| | lab ala |



¥

Section:

Explanation:

Reference:

https://www.baeldung.com/cs/feature-vs-label

https://machinelearningmastery.com/discover-feature-engineering-how-to-engineer-features-and-how-to-get-good-at-it/

QUESTION 50

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 | | 10 . |
|--|-----|--------------|
| Statements | Yes | dumps |
| Automated machine learning is the process of automating the time- consuming, iterative tasks of machine learning model development. | 0 | 0 |
| Automated machine learning can automatically infer the training data from the use case provided. | 0 | O |
| Automated machine learning works by running multiple training iterations that are scored and ranked by the metrics you specify. | 0 | 0 |
| Automated machine learning enables you to specify a dataset and will automatically understand which label to predict. | CE | plus |



| | No | |
|-----------|----------------|--|
| 0 | 0 | |
| 0 | 0 | |
| 0 | 0 | |
| o CEpl | o Us | |
| | o o CEpi | |

Section:

Explanation:

Box 1: Yes

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

Box 2: No

Box 3: Yes

During training, Azure Machine Learning creates a number of pipelines in parallel that try different algorithms and parameters for you. The service iterates through ML algorithms paired with feature selections, where each iteration produces a model with a training score. The higher the score, the better the model is considered to "fit" your data. It will stop once it hits the exit criteria defined in the experiment. Box 4: No

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

https://azure.microsoft.com/en-us/services/machine-learning/automatedml/#features

QUESTION 51

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 Type | Identify a fraudulent credit card payment. |
| Natural language processing | Workload Type | Predict next month's toy sales. |

Correct Answer:

| Workload Types | 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. |
| 21 | Machine Learning (Regression) | Predict next month's toy sales. |
| | | Copids |

Section:

Explanation:

Reference:

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

QUESTION 52

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:

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

Correct Answer:

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

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 53

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:

Model training

| Learning Types | Answer Area | |
|---------------------|---------------------|---|
| Feature engineering | ConTask | Examining the values of a confusion matrix |
| Feature selection | Task | Splitting a date into month, day, and year fields |
| Model deployment | Tack | Picking temperature and pressure to train a weather model |
| Model evaluation | Idsk | ricking temperature and pressure to train a weather moder |
| Model training | | CEplus |
| orrect Answer: | | |
| Learning Types | Answer Area | |
| | Model evaluation | Examining the values of a confusion matrix |
| | Feature engineering | Splitting a date into month, day, and year fields |
| Model deployment | Feature selection | Picking temperature and pressure to train a weather model |
| | | |

CEplus

Section:

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 54

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

QUESTION 55

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.



| Answer Area | | | | |
|--|--|---|----------------|------------------------|
| | Statements | | Yes | No |
| Providing an explanation an example of the Micro | on of the outcome of a credit le osoft transparency principle for | oan application is or responsible Al. | 0 | 0 |
| A triage bot that priorit of the Microsoft reliabil | izes insurance claims based of ity and safety principle for res | on injuries is an example ponsible Al. | 0 | 0 |
| An Al solution that is of an example of the Micr | fered at different prices for dif osoft inclusiveness principle f | fferent sales territories is for responsible AI. | 0 | 0 |
| | | | | |
| er Area: | | | | |
| | | | | |
| Answer Area | Statements | V du | Yes | S ^{No} |
| Providing an explanation an example of the Micro | on of the outcome of a credit le osoft transparency principle for | oan application is or responsible Al. | 0 | 0 |
| A triage bot that priorit of the Microsoft reliabil | izes insurance claims based of ity and safety principle for res | on injuries is an example ponsible Al. | 0 | 0 |
| An Al solution that is of an example of the Micr | fered at different prices for dif osoft inclusiveness principle f | fferent sales territories is or responsible AI. | 0 | 0 |
| | | | | |
| on: ination: : Yes | | | | |
| eving transparency helps the team rs insights about how the model wa | to understand the data and algorithms is created, which allows it to be reprodu | used to train the model, what tra iced in a transparent way. | ansformation | logic was appl |
| 2: INO Ita holder is obligated to protect the vidual's privacy. 3: No | e data in an AI system, and privacy and s | security are an integral part of th | is system. Per | sonal needs to |

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.

data, the final model generated, and its associated assets. This information

ed, and it should be accessed in a way that doesn't compromise an

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 56

HOTSPOT Select the answer that correctly completes the sentence

Hot Area:

Answer Area Ensuring an AI system does not provide a prediction when important fields contain unusual or missing values is a privacy and security principle for responsible Al. an inclusiveness a privacy and security a reliability and safety a transparency **Answer Area: Answer Area** Ensuring an Al system does not provide a prediction w contain unusual mportan or missing values is principle for responsible Al. a privacy and security * an inclusiveness a privacy and security a reliability and safety a transparency

Section: Explanation:

QUESTION 57

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:

| Actions | Answer Area | |
|---|-------------------|----|
| Evaluate the model against the original dataset. | E. TOOL C | |
| Ingest and prepare a dataset. | 2 00 | |
| Split the data randomly into training data and validation data. | 3 | |
| Train the model. | | 6 |
| Evaluate the model against the validation dataset. | Q | 6 |
| | $\langle \rangle$ | (~ |
| | a star | |

Correct Answer:

| Actions | | Answer Area |
|--|--------|---|
| Evaluate the model against the original dataset. | 5, ~00 | 1 Ingest and prepare a dataset. |
| [| Co. | 2 Split the data randomly into training data and validation data. |
| | 10.1 | 3 Train the model. |
| | 0 | 4 Evaluate the model against the validation dataset. |
| | ĕ | CELLON LEUN COM CELLO |
| | O | SELLON CEUL COM CE. |
| | | -dumns |
| Section: | | |

Explanation:

QUESTION 58

HOTSPOT

Select the answer that correctly completes the sentence.





Section: Explanation:

QUESTION 59

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

dumps

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 60

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 61

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 62

HOTSPOT Select the answer that correctly completes the sentence.

Hot Area:

Answer Area

When evaluating the performance of a model, the

confusion matrix

AUC metric

¥

confusion matrix

ROC curve

threshold

Answer Area:

V-dumps

dr.

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



Section: Explanation:

QUESTION 63

What are three Microsoft guiding principles for responsible AI? Each correct answer presents a complete solution. NOTE: Each correct selection is worth one point.

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

Correct Answer: C, D, F

Section:

Explanation:

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

QUESTION 64

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 65

Which metric can you use to evaluate a classification model?

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

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 66

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 67

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 68

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



Which type of model is the chart used to evaluate?

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

Correct Answer: B

Section:

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 69

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 70



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 71

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 72

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 73

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 74

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 75

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 76

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 77

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

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

Correct Answer: C

Section:

QUESTION 78

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

- A. Split the original dataset into a dataset for features and a dataset for labels. Use the features dataset for evaluation.
- B. Split the original dataset into a dataset for training and a dataset for testing. Use the training dataset for evaluation.
- C. Split the original dataset into a dataset for training and a dataset for testing. Use the testing dataset for evaluation.
- D. Use the original dataset for training and evaluation.

Correct Answer: C

Section:

QUESTION 79

HOTSPOT

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

Statements

A smart device in the home that responds to questions such as "When is my next appointment?" is an example of conversational Al.

An interactive webchat feature on a company website can be implemented by using Azure Bot Service.

Automatically ge captions for pre-recorded videos is an example of conversational AI.

| enerating | c |
|-----------|---|
| | |

| Answer Ar | ea: |
|-----------|------|
| Answer | Area |

| St | atements | Yes | No |
|-----------|---|------|----|
| A : ap | smart device in the home that responds to questions such as "When is my next pointment?" is an example of conversational Al. | ous | 0 |
| Ar Bc | n interactive webchat feature on a company website can be implemented by using Azure of Service. | os. | 0 |
| At Al | utomatically generating captions for pre-recorded videos is an example of conversational | 0.10 | 0 |
| | | | |

Section: Explanation:

QUESTION 80

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 81

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

No

Yes

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

Correct Answer: C

Section:

QUESTION 82

HOTSPOT

Select the answer that correctly completes the sentence.

Hot Area:

| A historian can use | optical character recognition (OCR) | - | to digitize newspaper articles. |
|---------------------|---|---|---------------------------------|
| A historian can ase | facial analysis | | |
| | image classification object detection optical character recognition (OCR) | | |

Answer Area:

| A historian can use | (OCP) | - | to digitize newspaper articles |
|---------------------|-------------------------------------|---|--------------------------------|
| A historian can use | optical character recognition (OCK) | | to digitize newspaper address. |
| | facial analysis | _ | |
| | image classification | | |
| | object detection | | |
| | optical character recognition (OCR) | | |

Section: Explanation:

QUESTION 83

HOTSPOT

Select the answer that correctly completes the sentence.



| When building a regression model, labels must have a data type of | numeric. | • |
|---|-----------------------|---|
| | boolean. datetime. | |
| | numeric. | |
| | text. | |

Section: Explanation:

QUESTION 84

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 85

HOTSPOT Select the answer that correctly completes the sentence.

Hot Area:

Answer Area

V-dumps

| Detecting unusual temperature fluctuations for a large machine is an example of | an anomaly detection workload. | | |
|---|---|--|--|
| | a computer vision workload. | | |
| | a knowledge mining workload. | | |
| | a natural language processing (NLP) workload. | | |
| | an anomaly detection workload. | | |

Answer Area:

Answer Area

Detecting unusual temperature fluctuations for a large machine is an example of an anomaly detection workload.
a computer vision workload.
a knowledge mining workload.
a natural language processing (NLP) workload.
a natural language processing (NLP) workload.

Section: Explanation:

QUESTION 86

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.



Section:

Explanation:

QUESTION 87

HOTSPOT

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

Hot Area:

Answer Area

Data values that used to make a prediction are called

| features. | |
|----------------------|--|
| dependant variables. | |
| featanes | |
| identifiers. | |
| labels. | |

Data values that used to make a prediction are called

| features. | - |
|----------------------|---|
| dependant variables. | |
| fearmes | |
| identifiers. | |
| labels. | |

Section: Explanation:

QUESTION 88

HOTSPOT Select the answer that correctly completes the sentence.

Hot Area:



Section:

Explanation:

QUESTION 89

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

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

D. reliability and safety

Correct Answer: C Section:

QUESTION 90

HOTSPOT

Select the answer that correctly completes the sentence.

Hot Area:

Answer Area

The

Form Recognizer **Computer Vision** Conversational Language Understanding **Custom Vision** Form Recognizer

dumps

Answer Area:

Answer Area

The

Form Recognizer Computer Vision Conversational Language Understanding Custom Vision Form Recognizer

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



Section:

Explanation:

QUESTION 91

HOTSPOT

Select the answer that correctly completes the sentence.

Hot 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

Natural language processing can be used to

ssify 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:

QUESTION 92

HOTSPOT

Select the answer that correctly completes the sentence.

Hot Area:



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

application is an example of

| anomaly detection. | |
|--------------------------|-------|
| computer vision. | |
| natural language process | sing. |
| forecasting. | |

Answer Area: Answer Area

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

application is an example of

anomaly detection. computer vision. natural language processing. forecasung.

Section: Explanation:

QUESTION 93

HOTSPOT

Select the answer that correctly completes the sentence.

Hot Area:





Section: Explanation:

QUESTION 94

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?

V-dumps

- 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:

Section.

QUESTION 95

Answer Area

HOTSPOT Select the answer that correctly completes the sentence.

Hot Area:

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

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

Answer selections

Answer selections

Answer Area:

Answer Area

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



Section: Explanation:

QUESTION 96

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

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

Correct Answer: D

Section:

QUESTION 97

You are building a chatbot that will use natural language processing (NLP) to perform the following actions based on the text input of a user:

- Accept customer orders.
- Retrieve support documents.
- Retrieve order status updates.

Which type of NLP should you use?

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

Correct Answer: D Section:

QUESTION 98

DRAG DROP

Match the Azure Cognitive Services service to the appropriate actions.

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

Select and Place:

| Language service | | Service | |
|------------------|-------------|---------|---|
| | | Service | Convert spoken requests into text. |
| Speech | -up my -cun | Service | Identify the intent of a user's requests. |
| Translator | En CE. | Service | Apply intent to entities and utterances |

Correct Answer:



Section:



Explanation:

QUESTION 99

HOTSPOT

Select the answer that correctly completes the sentence.

Hot Area:



Explanation:

QUESTION 100

HOTSPOT

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

Hot Area:



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

vype of machine learning. the

| classification | CEplus |
|----------------|--------|
| regression | |
| clustering | |





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

| the | | type of machine learning. |
|-----|----------------|---------------------------|
| | classification | CEplus |
| 2 | regression | |
| | clustering | |



Section:

Explanation:

Two-class classification provides the answer to simple two-choice questions such as Yes/No or True/False.

QUESTION 101

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:

Box 1: Yes

In machine learning, if you have labeled data, that means your data is marked up, or annotated, to show the target, which is the answer you want your machine learning model to predict. In general, data labeling can refer to

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tasks that include data tagging, annotation, classification, moderation, transcription, or processing.

Box 2: No

Box 3: No

Accuracy is simply the proportion of correctly classified instances. It is usually the first metric you look at when evaluating a classifier. However, when the test data is unbalanced (where most of the instances belong to one of the classes), or you are more interested in the performance on either one of the classes, accuracy doesn't really capture the effectiveness of a classifier. Reference:

https://www.cloudfactory.com/data-labeling-guide

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

QUESTION 102

HOTSPOT

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



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 103

HOTSPOT

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



| mple of | | V | | |
|----------|--------------------|-----|-----|---|
| Vici | anomaly detection. | | | |
| <u> </u> | computer vision. | | | |
| | conversational Al. | | | |
| | forecasting. | 6 | | |
| | | jCI | plu | S |

Section:

Explanation:

V-dumps 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 104

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.



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 105

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.



QUESTION 106

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:

| Norkloads Types | Ans |
|-----------------------------|-----|
| Anomaly detection | Wo |
| Computer vision | Wo |
| Conversational AI | Wo |
| Knowledge mining | |
| Natural language processing | ab |

| Workload Type | An automated chat to answer questions about refunds and exchange |
|---------------|---|
| Workload Type | Determining whether a photo contains a person |
| Workload Type | Determining whether a review is positive or negative |



Correct Answer:

| Anomaly detection | |
|-------------------|--|
| | |
| | |
| Knowledge mining | |

| Ans | wer | Area | |
|------|-----|---------|--|
| Allo | | / li ou | |

| Conversational Al | An automated chat to answer questions about refunds and exchange |
|-----------------------------|---|
| Computer vision | Determining whether a photo contains a person |
| Natural language processing | Determining whether a review is positive or negative |
| | e dumps |

Section:

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 107

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 | [marked] | Implementing processes to ensure that decisions made |
| Inclusiveness | Principle | by AI 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 | | CEplus |
| XI 16 | | COM COM |

Correct Answer:



Section:

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 108

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 109

Which Azure Al Language feature can be used to retrieve data, such as dates and people's names, from social media posts?

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

Correct Answer: D Section:

QUESTION 110 HOTSPOT Select the answer that correctly completes the sentence.

Hot Area:

Answer Area

As part of the Microsoft responsible AI principles, customers must



 obtain approval based on their intended usage

 commit to a minimum level of expenditure

 obtain approval based on their intended usage

 pay an upfront fee

 provide their credit card details

Answer Area:

Answer Area

As part of the Microsoft responsible AI principles, customers must

| obtain approval based on their intended usage | - |
|---|---|
| commit to a minimum level of expenditure | |
| obtain approval based on their intended usage | |
| pay an upfront fee provide their credit card details | |

Section: Explanation: before they can use Azure OpenAl.

before they can use Azure OpenAl.