AI-900 Q&As

Microsoft Azure AI Fundamentals

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QUESTION 1

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: AB

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 2

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:

1.

Include one or more faces.

2.

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

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

QUESTION 3

DRAG DROP

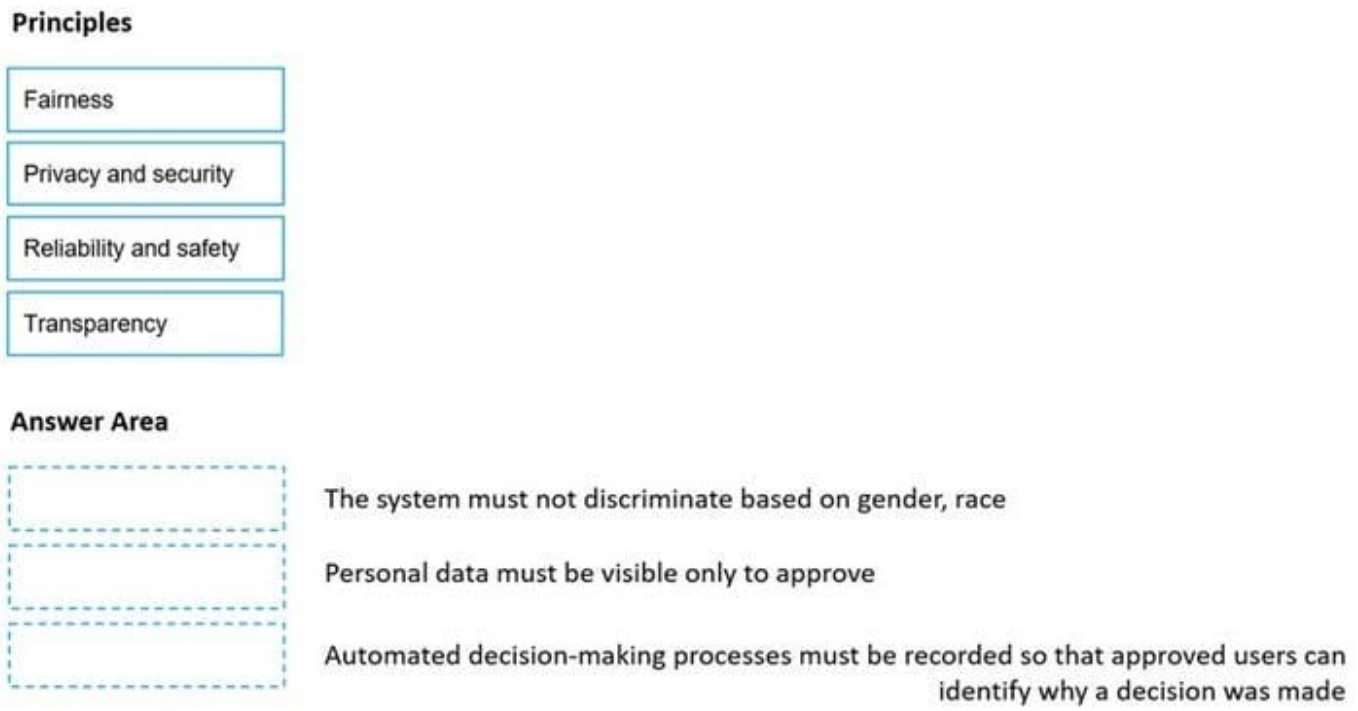
Match the principles of responsible AI to appropriate requirements.

To answer, drag the appropriate principles from the column on the left to its requirement on the right. Each principle may

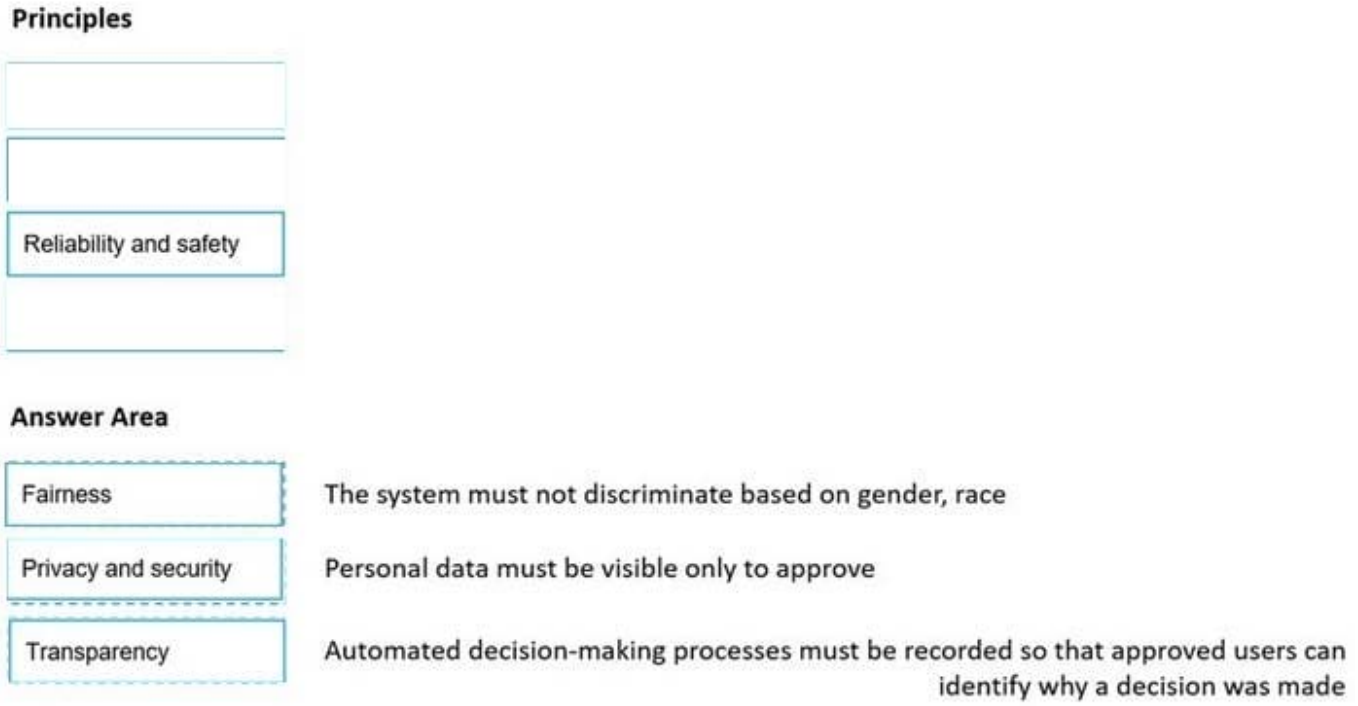
be used once, more than once, or not at all. You may need to drag the split bar between panes or scroll to view content.

NOTE: Each correct selection is worth one point.

Select and Place:



Correct Answer:



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 4

In which two scenarios can you use speech recognition? Each correct answer presents a complete solution. NOTE: Each correct selection is worth one point.

A. an in-car system that reads text messages aloud

B. providing closed captions for recorded or live videos

C. creating an automated public address system for a train station

D. creating a transcript of a telephone call or meeting

Correct Answer: BD

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

QUESTION 5

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.

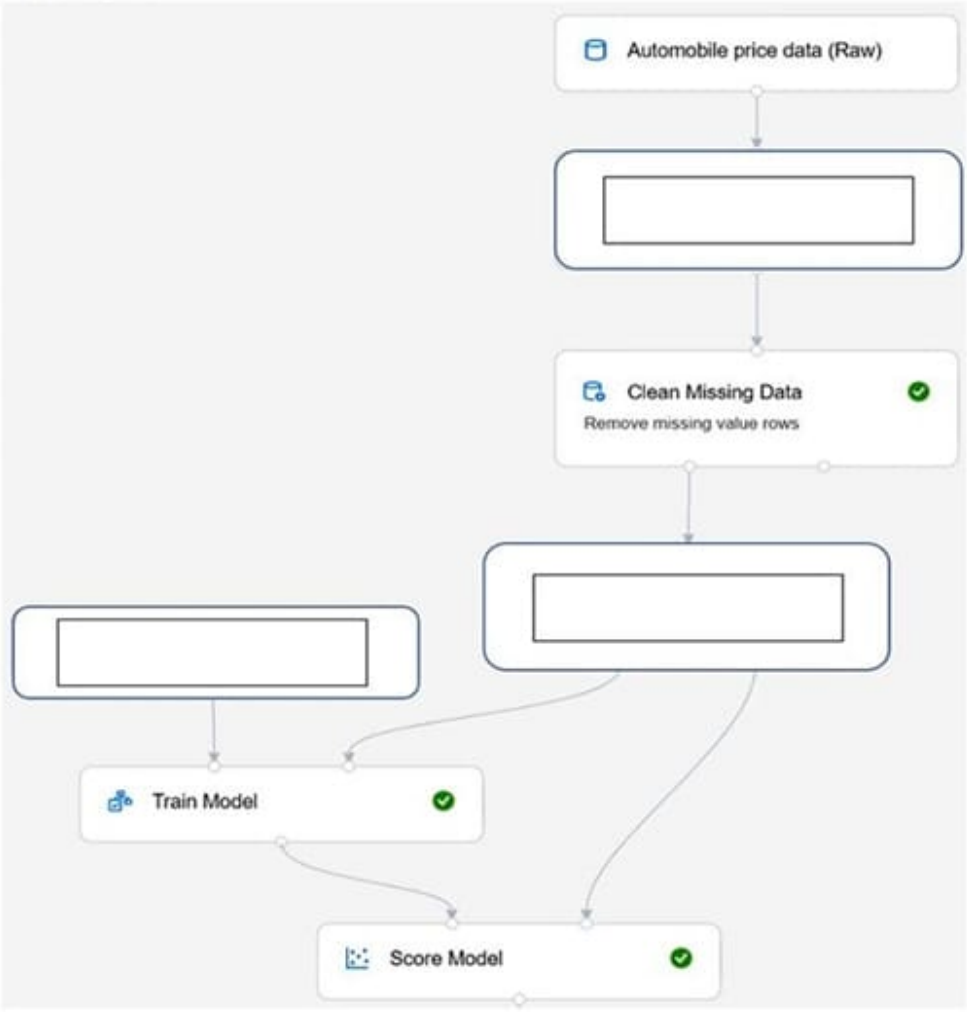
NOTE: Each correct selection is worth one point.

Select and Place:

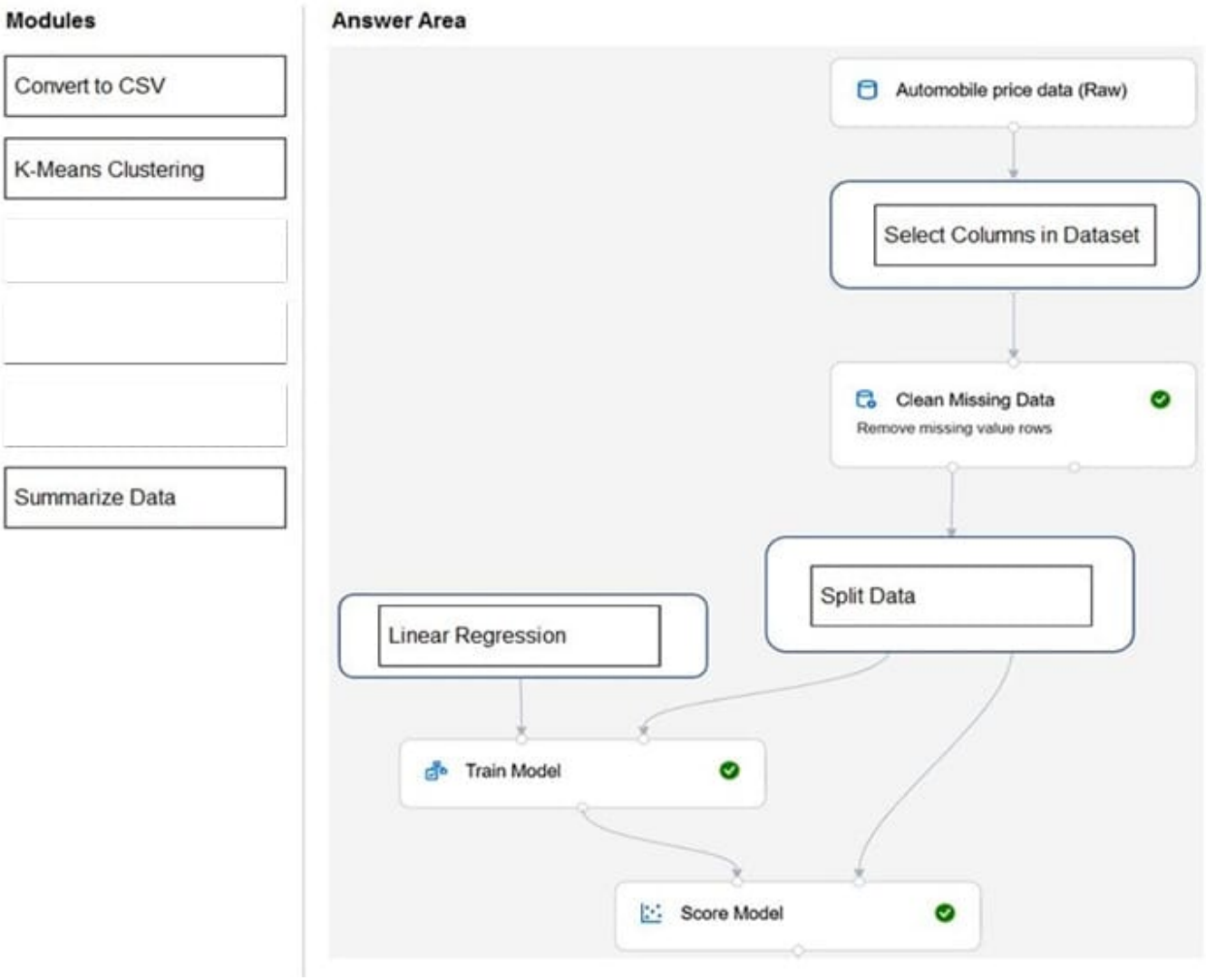
Modules

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

Answer Area



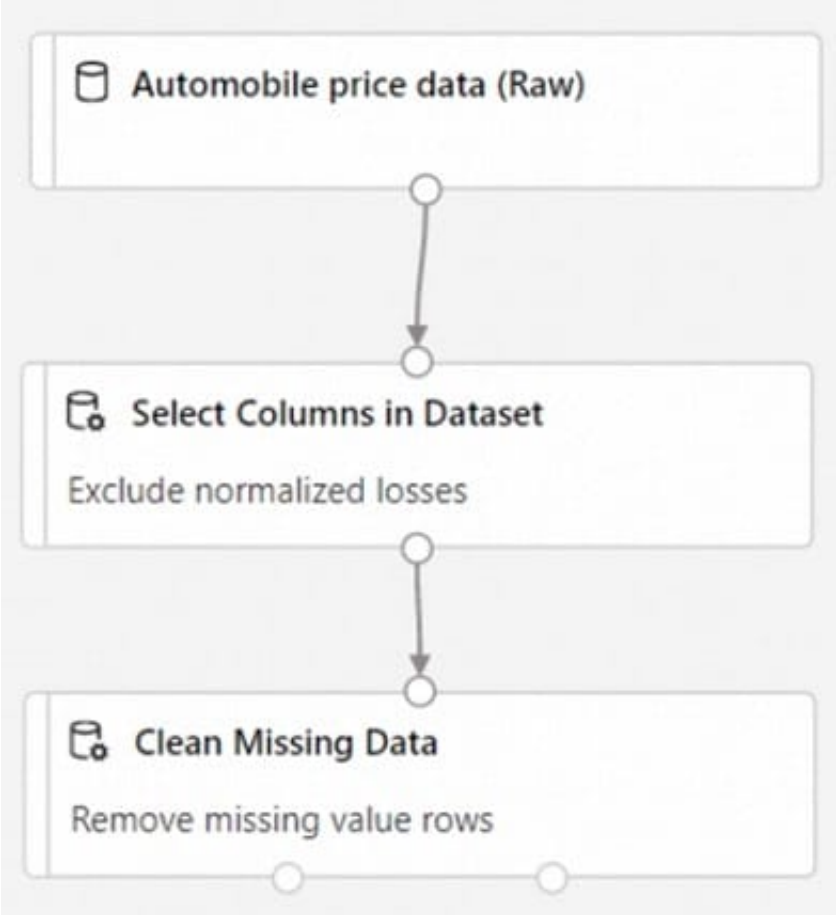
Correct Answer:



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.

QUESTION 6

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

Incorrect:

Skill actions include

*

Use skills for complex, multi-turn operations. For example, schedule a meeting or book a flight. (Not A, Not B)

*

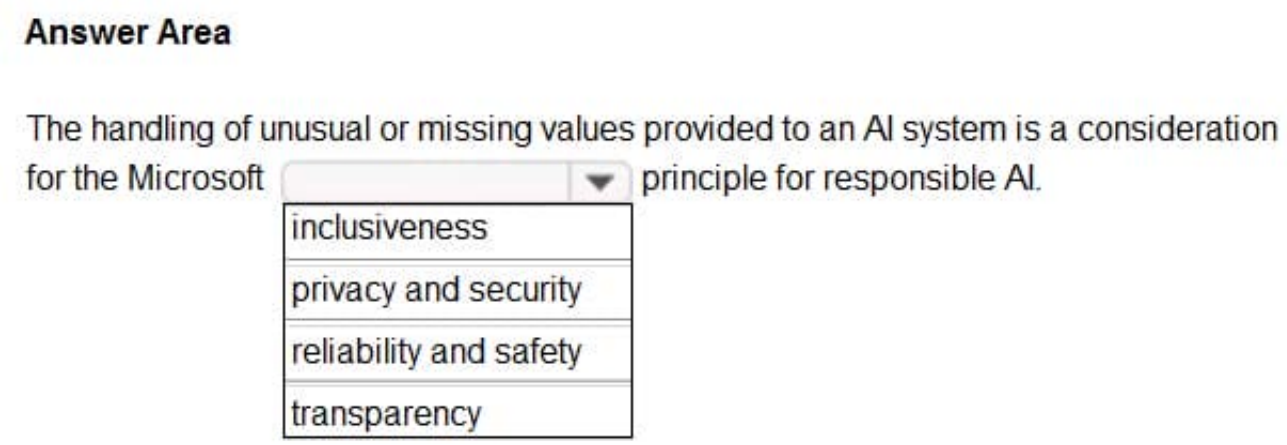
Use skills to emit any supported bot response. For example, show an adaptive card or send random responses. (not C)
Reference: https://learn.microsoft.com/en-us/power-virtual-agents/configuration-add-skills

QUESTION 7

HOTSPOT

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

Hot Area:



Correct Answer:

Answer Area

The handling of unusual or missing values provided to an AI system is a consideration for the Microsoft [ ] principle for responsible AI.

- inclusiveness
- privacy and security
- reliability and safety
- transparency

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

QUESTION 8

You have a dataset.

You need to build an Azure Machine Learning classification model that will identify defective products.

What should you do first?

A. Load the dataset.

B. Create a clustering model.

C. Split the data into training and testing datasets.

D. Create a classification model.

Correct Answer: C

Understand steps for classification

You can think of the steps to train and evaluate a classification machine learning model as:

1.

Prepare data: Identify the features and label in a dataset. Pre-process, or clean and transform, the data as needed.

2.

Train model: Split the data into two groups, a training and a validation set. Train a machine learning model using the training data set. Test the machine learning model for performance using the validation data set.

3.

Evaluate performance: Compare how close the model\\'s predictions are to the known labels.

4.

Deploy a predictive service: After you train a machine learning model, you need to convert the training pipeline into a real-time inference pipeline. Then you can deploy the model as an application on a server or device so that others can use it.

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

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:

Answer 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 AI.	○	○
A triage bot that prioritizes insurance claims based on injuries is an example of the Microsoft reliability and safety principle for responsible AI.	○	○
An AI solution that is offered at different prices for different sales territories is an example of the Microsoft inclusiveness principle for responsible AI.	○	○

Correct Answer:

Answer 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 AI.	○	○
A triage bot that prioritizes insurance claims based on injuries is an example of the Microsoft reliability and safety principle for responsible AI.	○	○
An AI solution that is offered at different prices for different sales territories is an example of the Microsoft inclusiveness principle for responsible AI.	○	○

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 10

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

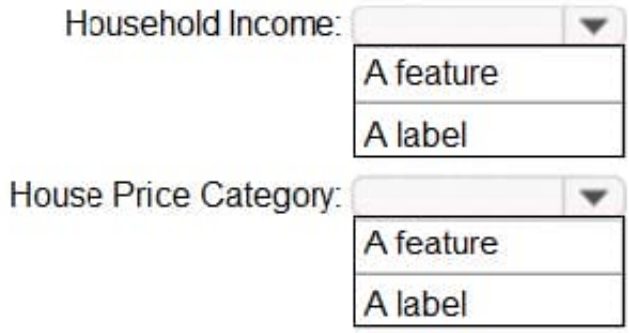
You plan to use the dataset to train a model that will predict the house price categories of houses.

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.

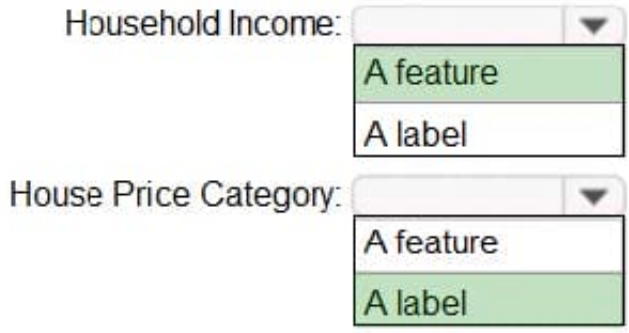
Hot Area:

Answer Area



Correct Answer:

Answer Area



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

QUESTION 11

You are building an AI system.

Which task should you include to ensure that the service meets the Microsoft transparency principle for responsible AI?

A. Ensure that all visuals have an associated text that can be read by a screen reader.

B. Enable autoscaling to ensure that a service scales based on demand.

C. Provide documentation to help developers debug code.

D. Ensure that a training dataset is representative of the population.

Correct Answer: C

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

QUESTION 12

Which AI service can you use to extract intent from a user input such as “Call me back later”?

A. Azure Cognitive Search

B. Translator

C. Language

D. Speech

Correct Answer: D

The Cognitive Services Speech SDK provides two ways to recognize intents. An intent is something the user wants to do: book a flight, check the weather, or make a call. Using intent recognition, your applications, tools, and devices can determine what the user wants to initiate or do based on options you define in the Intent Recognizer or Conversational Language Understanding (CLU) model.

1.

Pattern matching

The Speech SDK provides an embedded pattern matcher that you can use to recognize intents in a very strict way. This is useful for when you need a quick offline solution. This works especially well when the user is going to be trained in

some way or can be expected to use specific phrases to trigger intents.

2.

Conversational Language Understanding

Conversational language understanding (CLU) enables users to build custom natural language understanding models to predict the overall intention of an incoming utterance and extract important information from it.

Both a Speech resource and Language resource are required to use CLU with the Speech SDK. The Speech resource is used to transcribe the user\\'s speech into text, and the Language resource is used to recognize the intent of the utterance.

Reference: https://learn.microsoft.com/en-us/azure/cognitive-services/speech-service/intent-recognition

QUESTION 13

HOTSPOT

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

Hot Area:

Answer Area

Data values that influence the prediction of a model are called [▼]

- dependant variables.
- features.
- identifiers.
- labels.

Correct Answer:

Answer Area

Data values that influence the prediction of a model are called [▼]

- dependant variables.
- features.
- identifiers.
- labels.

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

QUESTION 14

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

1.

A product troubleshooting guide in a Microsoft Word document

2.

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

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

QUESTION 15

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
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 call transcript.	○	○
You can use the Speech service to translate the audio of a call to a different language.	○	○

Correct Answer:

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 call transcript.	○	○
You can use the Speech service to translate the audio of a call to a different language.	○	○

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