AI-900Q&As

Microsoft Azure AI Fundamentals

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QUESTION 1

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

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/machine-learning- initialize-model-clustering

QUESTION 2

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 3

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 communicate with a bot by using email.	○	○
You can communicate with a bot by using Microsoft Teams.	○	○
You can communicate with a bot by using a webchat interface.	○	○

Correct Answer:

Answer Area

Statements	Yes	No
You can communicate with a bot by using email.	○	○
You can communicate with a bot by using Microsoft Teams.	○	○
You can communicate with a bot by using a webchat interface.	○	○

Reference: https://docs.microsoft.com/en-us/azure/bot-service/bot-service-manage-channels?view=azure-bot-service-4.0

QUESTION 4

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

A. Calculate the accuracy of the model.

B. Score test data by using the model.

C. Combine multiple datasets.

D. Use the model for real-time predictions.

E. Remove records that have missing values.

Correct Answer: CE

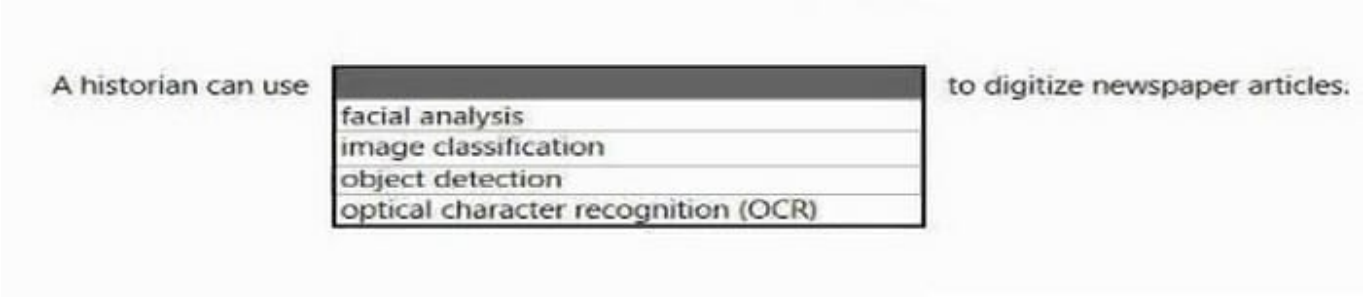
Reference: https://docs.microsoft.com/en-us/azure/machine-learning/concept-data-ingestion
https://docs.microsoft.com/en-us/azure/architecture/data-science-process/prepare-data

QUESTION 5

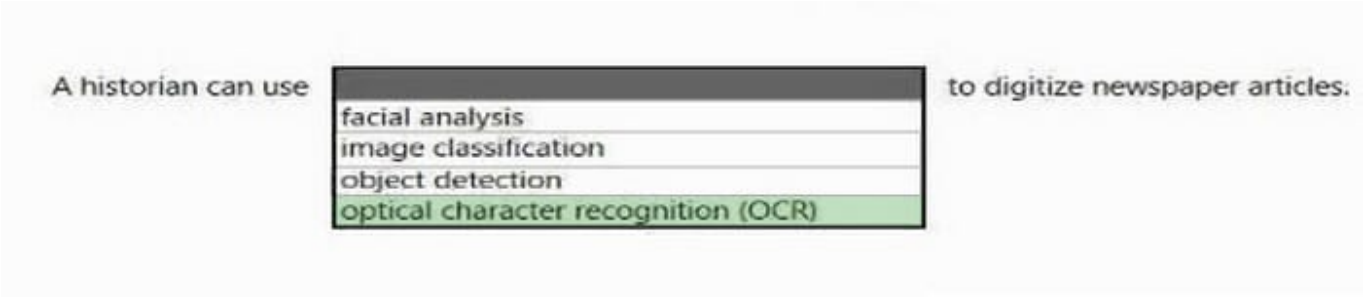
HOTSPOT

Select the answer that correctly completes the sentence.

Hot Area:



Correct Answer:



QUESTION 6

You are building a Language Understanding model for an e-commerce business.

You need to ensure that the model detects when utterances are outside the intended scope of the model.

What should you do?

A. Test the model by using new utterances

B. Add utterances to the None intent

C. Create a prebuilt task entity

D. Create a new model

Correct Answer: B

The None intent is filled with utterances that are outside of your domain.

Reference: https://docs.microsoft.com/en-us/azure/cognitive-services/LUIS/luis-concept-intent

QUESTION 7

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. face detection

B. image classification

C. object detection

D. optical character recognition (OCR)

Correct Answer: D

You can use OCR to Turn PDF and Image Files into Electronic Documents.

Reference: https://learn.microsoft.com/en-us/dynamics-nav-app/across-how-use-ocr-pdf-images-files

QUESTION 8

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

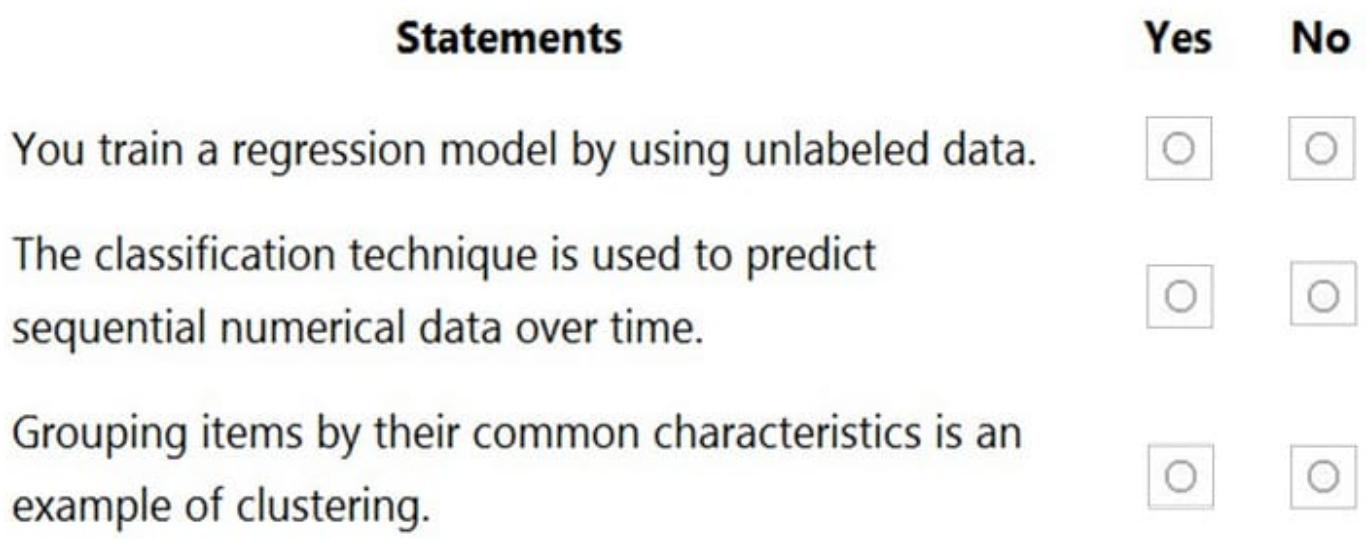
QUESTION 9

HOTSPOT

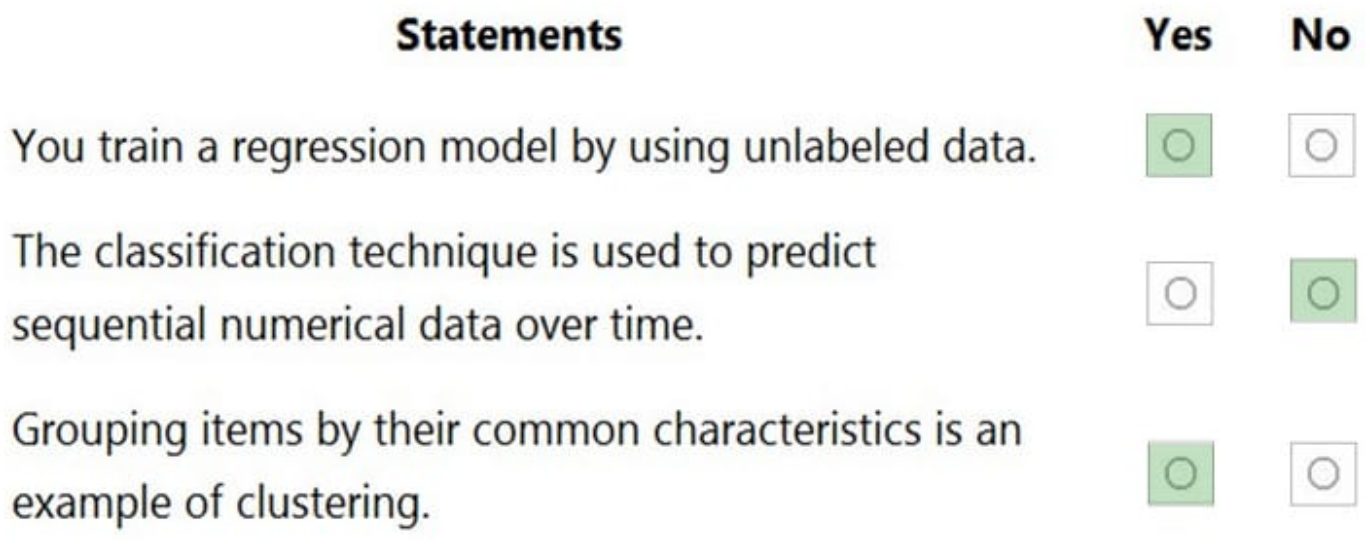
For each of the following statements, select Yes if the statement is true. Otherwise, select No.

NOTE: Each correct selection is worth one point.

Hot Area:



Correct Answer:



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

QUESTION 10

Natural language processing can be used to _____. Select the answer that correctly completes the sentence.

A. Analyze video content

B. Generate speech

C. Classify email messages as work-related or personal.

D. Classify images

Correct Answer: C

Natural language processing (NLP) has many uses: sentiment analysis, topic detection, language detection, key phrase extraction, and document categorization.

Note: Specifically, you can use NLP to:

*-> Classify documents. For instance, you can label documents as sensitive or spam.

Do subsequent processing or searches. You can use NLP output for these purposes.

Summarize text by identifying the entities that are present in the document.

Tag documents with keywords. For the keywords, NLP can use identified entities.

Do content-based search and retrieval. Tagging makes this functionality possible.

Summarize a document\\'s important topics. NLP can combine identified entities into topics.

Categorize documents for navigation. For this purpose, NLP uses detected topics.

Enumerate related documents based on a selected topic. For this purpose, NLP uses detected topics.

Score text for sentiment. By using this functionality, you can assess the positive or negative tone of a document.

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

QUESTION 11

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: AC

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 12

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 13

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

A. AI systems must use only publicly available data

B. AI systems must be transparent and inclusive

C. AI systems must keep personal details public

D. AI systems must protect the interests of the company

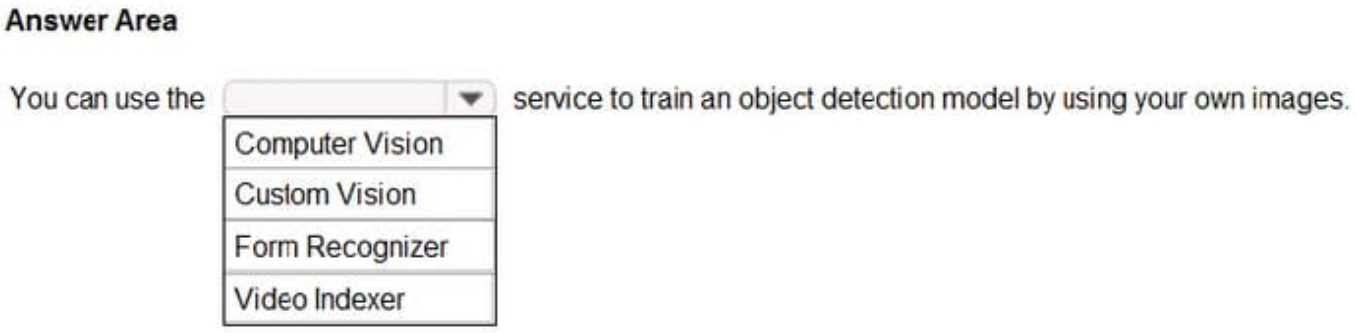
Correct Answer: B

QUESTION 14

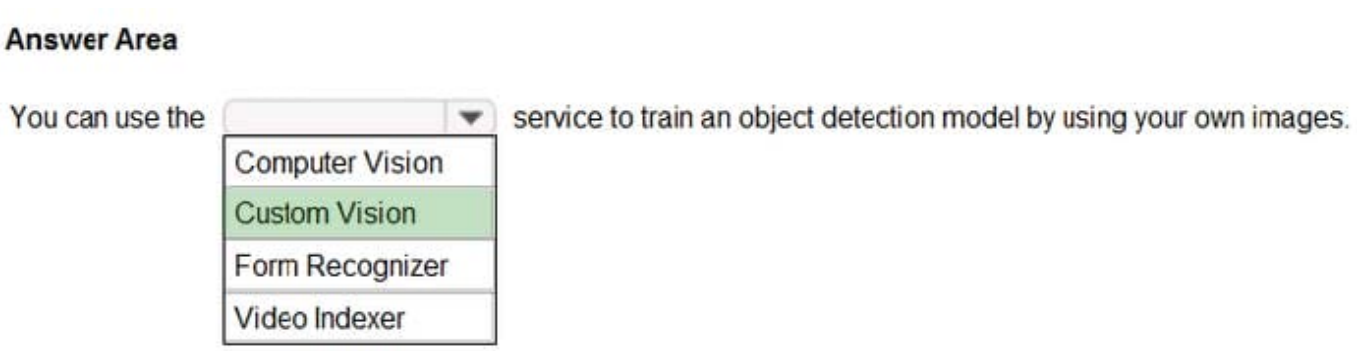
HOTSPOT

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

Hot Area:



Correct Answer:



Azure Custom Vision is a cognitive service that lets you build, deploy, and improve your own image classifiers. An

image classifier is an AI service that applies labels (which represent classes) to images, according to their visual

characteristics. Unlike the Computer Vision service, Custom Vision allows you to specify the labels to apply.

Note: The Custom Vision service uses a machine learning algorithm to apply labels to images. You, the developer, must submit groups of images that feature and lack the characteristics in question. You label the images yourself at the time of

submission. Then the algorithm trains to this data and calculates its own accuracy by testing itself on those same images. Once the algorithm is trained, you can test, retrain, and eventually use it to classify new images according to the needs

of your app. You can also export the model itself for offline use.

Incorrect Answers:

Computer Vision:

Azure\\'s Computer Vision service provides developers with access to advanced algorithms that process images and return information based on the visual features you\\'re interested in. For example, Computer Vision can determine whether an

image contains adult content, find specific brands or objects, or find human faces.

Reference:

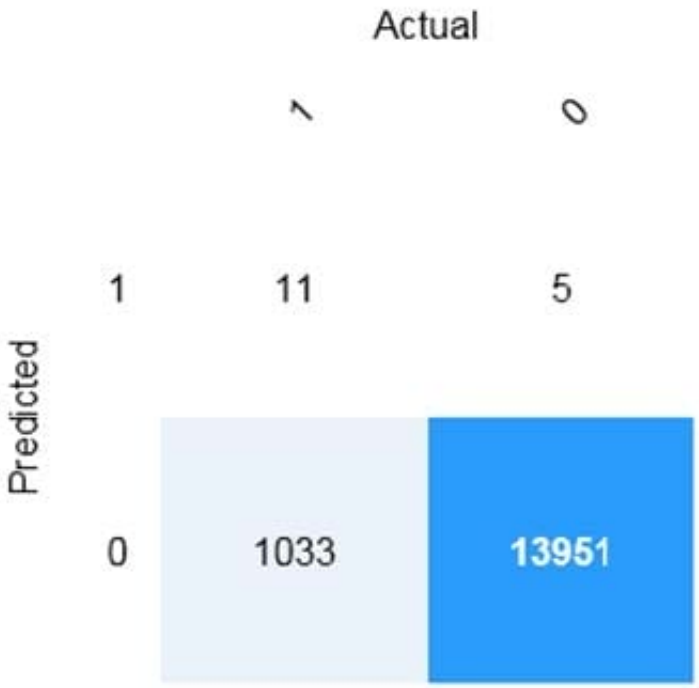
https://docs.microsoft.com/en-us/azure/cognitive-services/custom-vision-service/home

QUESTION 15

HOTSPOT

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

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



Use the drop-down menus to select the answer choice that completes each statement based on the information presented in the graphic.

NOTE: Each correct selection is worth one point.

Hot Area:

Answer Area

There are **[answer choice]** correctly predicted positives.

- 5
- 11
- 1,033
- 13,951

There are **[answer choice]** false negatives.

- 5
- 11
- 1,033
- 13,951

Correct Answer:

Answer Area

There are **[answer choice]** correctly predicted positives.

- 5
- 11
- 1,033
- 13,951

There are **[answer choice]** false negatives.

- 5
- 11
- 1,033
- 13,951

Box 1: 11

	Predicted	
	Positive	Negative
Actual True	TP	FN
Actual False	FP	TN

TP = True Positive.

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

(TN), respectively. Similarly, the incorrectly classified instances are called false positives (FP) and false negatives (FN).

Box 2: 1,033

FN = False Negative

Reference:

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