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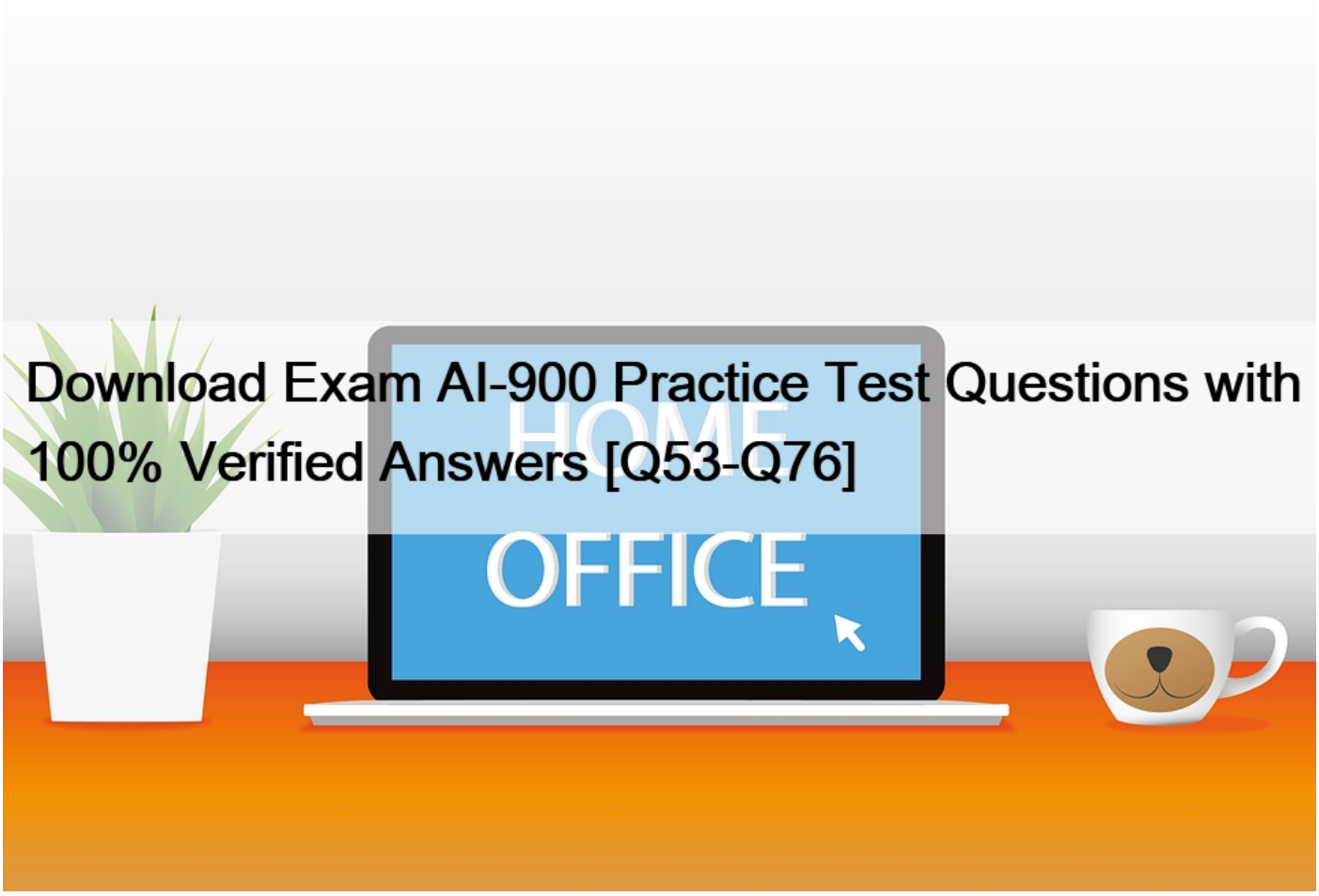


Download Exam AI-900 Practice Test Questions with 100% Verified Answers Share Latest AI-900Test Practice Test Questions, Exam Dumps QUESTION 53

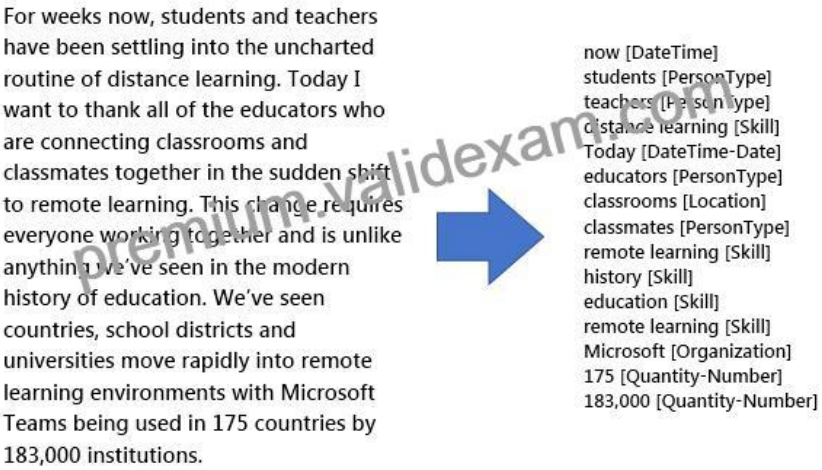
You need to build an image tagging solution for social media that tags images of your friends automatically. Which Azure Cognitive Services service should you use?

* Computer Vision
* Face
* Text Analytics
* Form Recognizer

QUESTION 54

You use natural language processing to process text from a Microsoft news story.

You receive the output shown in the following exhibit.



Which type of natural languages processing was performed?

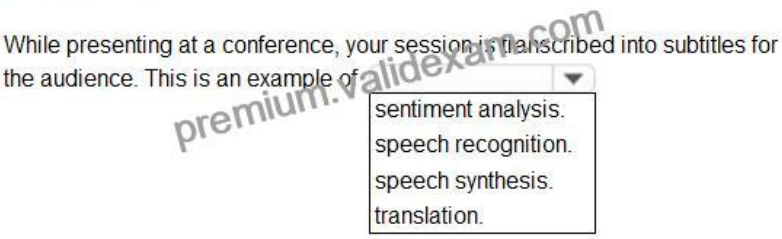
* entity recognition
* key phrase extraction
* sentiment analysis
* translation

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

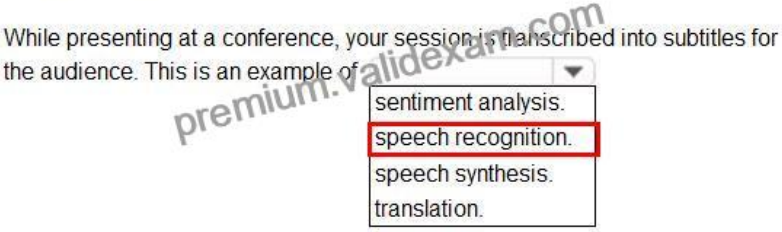
QUESTION 55

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

Answer Area



Answer Area



Reference:

https://azure.microsoft.com/en-gb/services/cognitive-services/speech-to-text/#features Speech recognition means Speech to Text. In the above example as a person speaks the words are converted into text of the same language. Hence Speech to Text also called Speech recognition is the right answer.

Speech recognition – the ability to detect and interpret spoken input.

Speech synthesis – the ability to generate spoken output.

https://docs.microsoft.com/en-us/learn/modules/recognize-synthesize-speech/1-introduction

QUESTION 56

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?
* Custom Vision
* QnA Maker
* Translator Text
* Face

QnA Maker is a cloud-based API service that lets you create a conversational Question:-and-answer layer over your existing data. Use it to build a knowledge base by extracting Questions and answers from your semi- structured content, including FAQs, manuals, and documents. Answer users’ Questions with the best answers from the QnAs in your knowledge base-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 57

Your company is exploring the use of voice recognition technologies in its smart home devices. The company wants to identify any barriers that might unintentionally leave out specific user groups.

This an example of which Microsoft guiding principle for responsible AI?
* accountability
* fairness
* inclusiveness
* privacy and security

Section: Describe Artificial Intelligence workloads and considerations

Explanation/Reference:

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

QUESTION 58

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.
* Train a custom image classification model.
* Detect faces in an image.
* Recognize handwritten text.
* Translate the text in an image between languages.

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 Detect faces in an image – Face API Microsoft Azure provides multiple cognitive services that you can use to detect and analyze faces, including:

Computer Vision, which offers face detection and some basic face analysis, such as determining age.

Video Indexer, which you can use to detect and identify faces in a video.

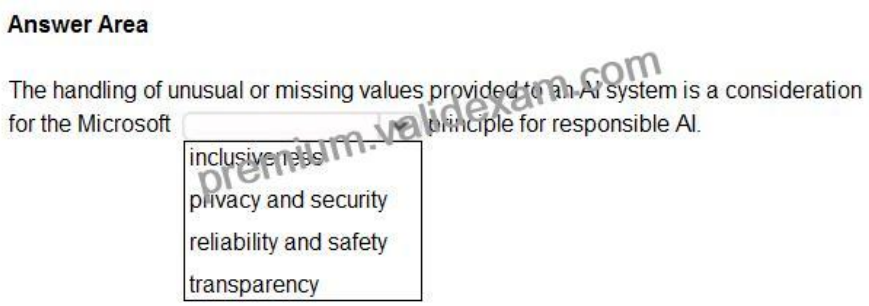
Face, which offers pre-built algorithms that can detect, recognize, and analyze faces.

Recognize hand written text – Read API

The Read API is a better option for scanned documents that have a lot of text. The Read API also has the ability to automatically determine the proper recognition model

QUESTION 59

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



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

QUESTION 60

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.

Household Income: [ ]
House Price Category: [ ]

- A feature
- A label

Household Income: A feature
House Price Category: A label

Reference:

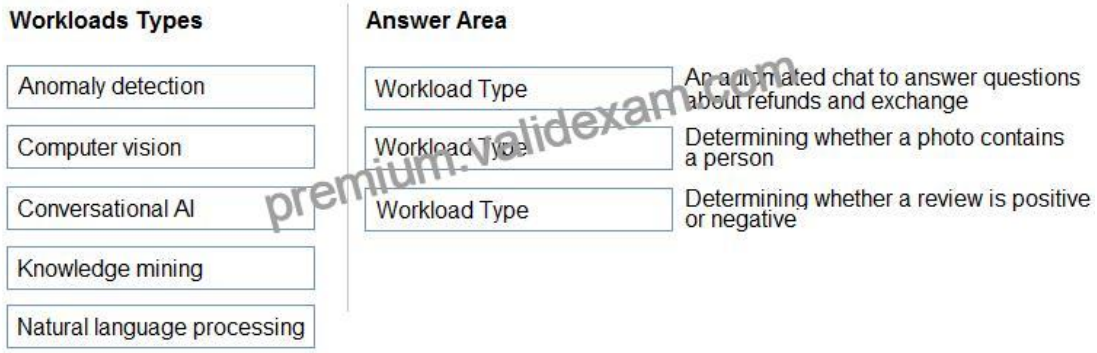
https://docs.microsoft.com/en-us/azure/machine-learning/studio/interpret-model-results

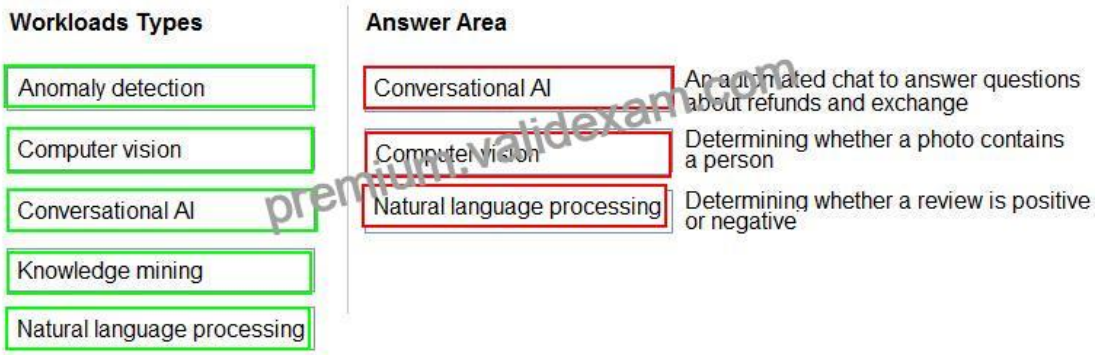
QUESTION 61

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.





Reference:

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

QUESTION 62

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

Which two parameters should you use to consume the pipeline? Each correct answer presents part of the solution.

NOTE: Each correct selection is worth one point.
* the model name
* the training endpoint
* the authentication key
* the REST endpoint

Section: Describe fundamental principles of machine learning on Azure

Explanation:

A: The trained model is stored as a Dataset module in the module palette. You can find it under My Datasets.

Azure Machine Learning designer lets you visually connect datasets and modules on an interactive canvas to create machine learning models.

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

Reference:

https://docs.microsoft.com/en-us/azure/machine-learning/how-to-run-batch-predictions-designer

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

QUESTION 63

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

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

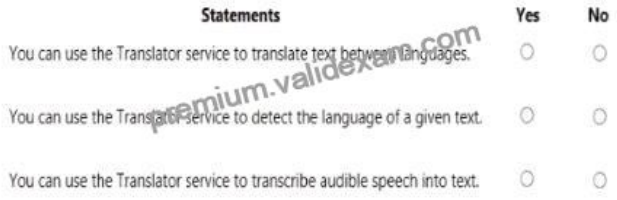
Explanation:

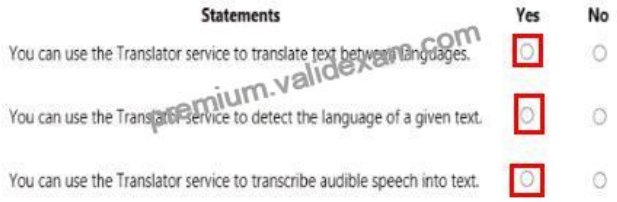
Classification

QUESTION 64

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 65

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

Answer Area

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

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

Answer Area

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

Explanation

Features

QUESTION 66

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.

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?

Reference:

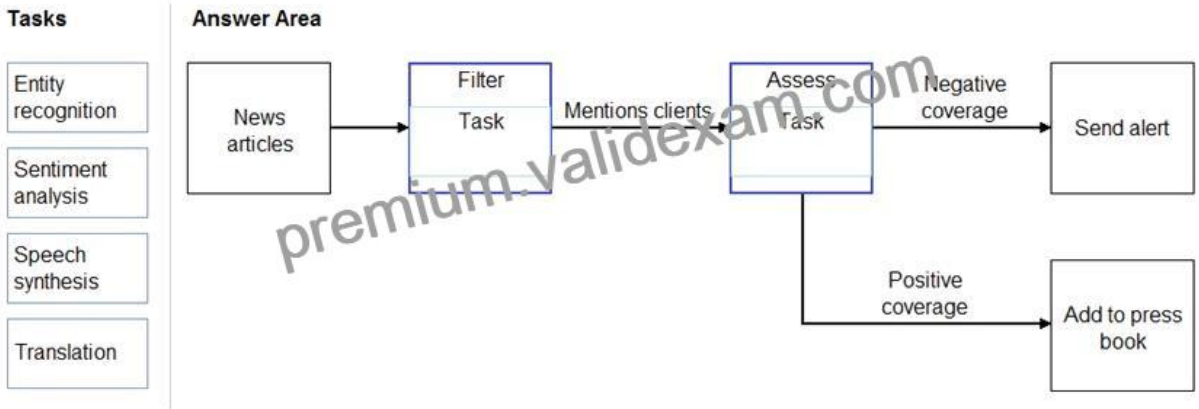
https://azure.microsoft.com/en-us/services/cognitive-services/face/#features

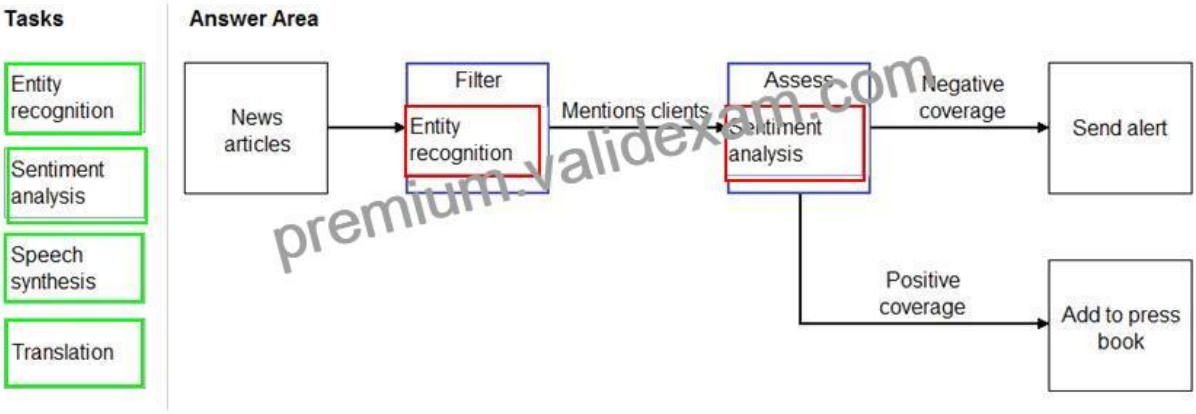
QUESTION 67

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.





Reference:

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

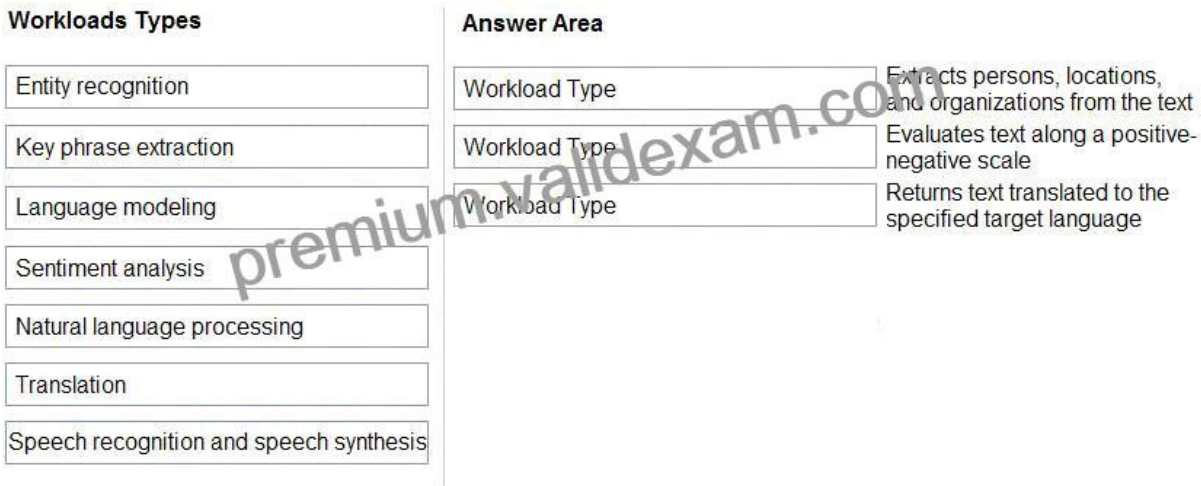
https://docs.microsoft.com/en-us/azure/cognitive-services/text-analytics/how-tos/text-analytics-how-to-sentiment-analysis

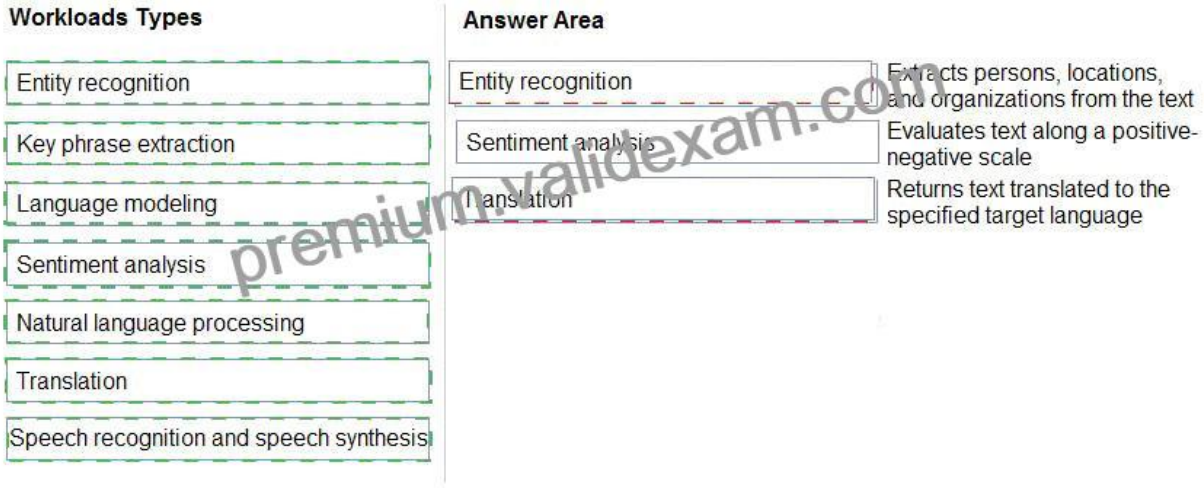
QUESTION 68

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.





Explanation

Box 1: Entity recognition

Classify a broad range of entities in text, such as people, places, organisations, date/time and percentages, using named entity recognition. Whereas:- Get a list of relevant phrases that best describe the subject of each record using key phrase extraction.

Box 2: Sentiment analysis

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

Box 3: Translation

Using Microsoft’s Translator text API

This versatile API from Microsoft can be used for the following:

Translate text from one language to another.

Transliterate text from one script to another.

Detecting language of the input text.

Find alternate translations to specific text.

Determine the sentence length.

Reference:

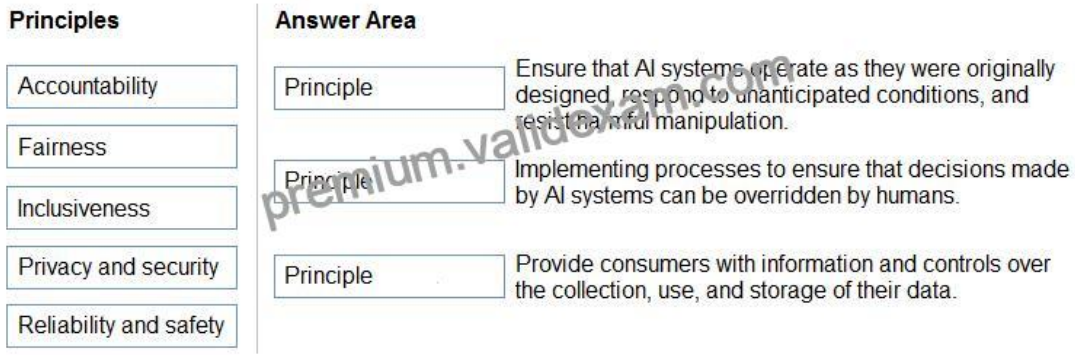
https://azure.microsoft.com/en-us/services/cognitive-services/text-analytics

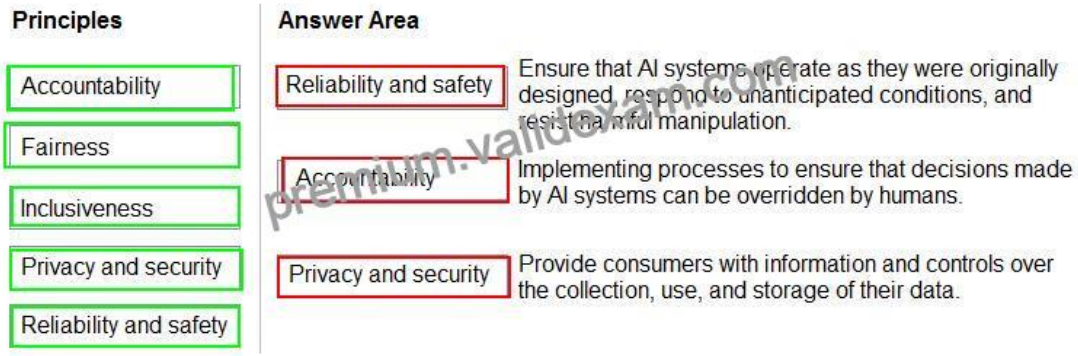
QUESTION 69

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.





QUESTION 70

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

Which two parameters should you use to consume the pipeline? Each correct answer presents part of the solution.

NOTE: Each correct selection is worth one point.
* the model name
* the training endpoint
* the authentication key
* the REST endpoint

Explanation

A: The trained model is stored as a Dataset module in the module palette. You can find it under My Datasets.

Azure Machine Learning designer lets you visually connect datasets and modules on an interactive canvas to create machine learning models.

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

Reference:

https://docs.microsoft.com/en-us/azure/machine-learning/how-to-run-batch-predictions-designer

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

QUESTION 71

You need to predict the sea level in meters for the next 10 years.

Which type of machine learning should you use?
* classification
* regression
* clustering

Explanation

In the most basic sense, regression refers to prediction of a numeric target.

Linear regression attempts to establish a linear relationship between one or more independent variables and a numeric outcome, or dependent variable.

You use this module to define a linear regression method, and then train a model using a labeled dataset. The trained model can then be used to make predictions.

Reference:

https://docs.microsoft.com/en-us/azure/machine-learning/studio-module-reference/linear-regression Regression is a form of machine learning that is used to predict a numeric label based on an item’s features.

https://docs.microsoft.com/en-us/learn/modules/create-regression-model-azure-machine-learning-designer/introd

QUESTION 72

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

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

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 73

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

Answer Area

You can use the [▼] service to train an object detection model by using your own images.

- Computer Vision
- Custom Vision
- Form Recognizer
- Video Indexer

Answer Area

Reference:

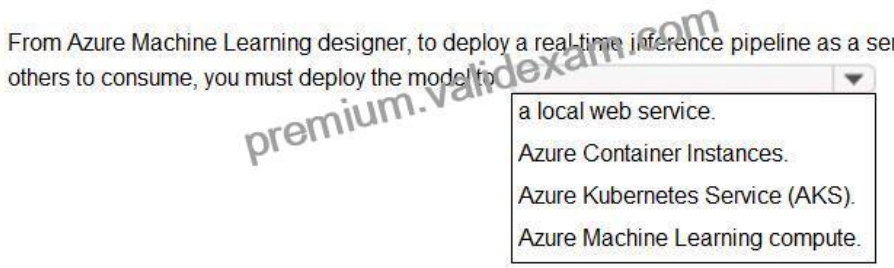
https://docs.microsoft.com/en-us/azure/cognitive-services/custom-vision-service/home custom vision – This is a type of computer vision service which helps in building/training models using user provided data Creating an object detection solution with Custom Vision consists of three main tasks. First you must use upload and tag images, then you can train the model, and finally you must publish the model so that client applications can use it to generate predictions.

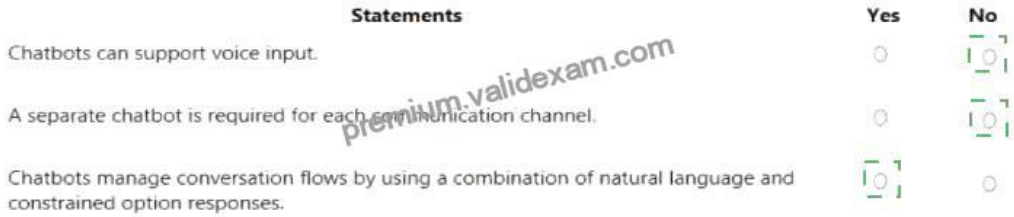
https://docs.microsoft.com/en-us/learn/modules/detect-objects-images-custom-vision/2-object-detection-azure

QUESTION 74

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

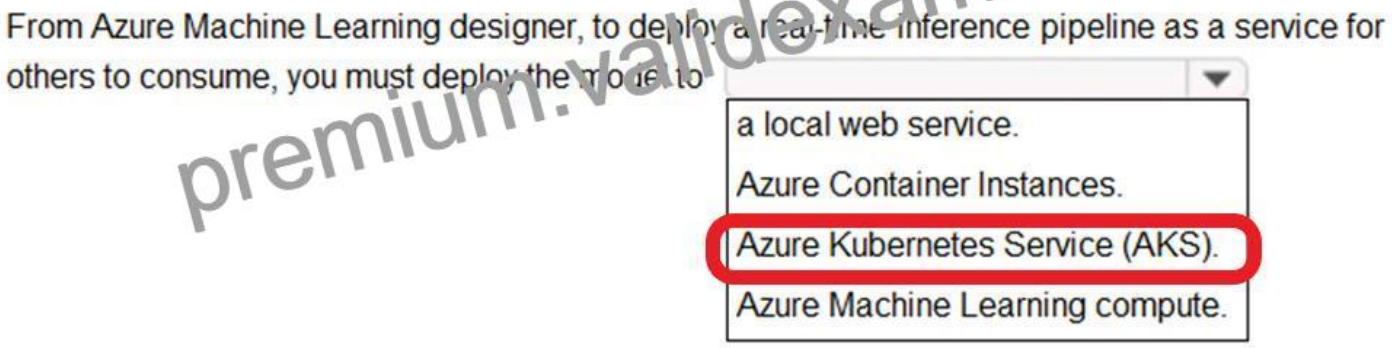
Answer Area





Explanation

Answer Area



To perform real-time inferencing, you must deploy a pipeline as a real-time endpoint.

Real-time endpoints must be deployed to an Azure Kubernetes Service cluster.

Reference:

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

QUESTION 75

You are developing a chatbot solution in Azure.

Which service should you use to determine a user’s intent?
* Translator Text
* QnA Maker
* Speech
* Language Understanding (LUIS)

Section: Describe features of Natural Language Processing (NLP) workloads on Azure Explanation:

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

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

Reference:

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

QUESTION 76

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

Answer Area

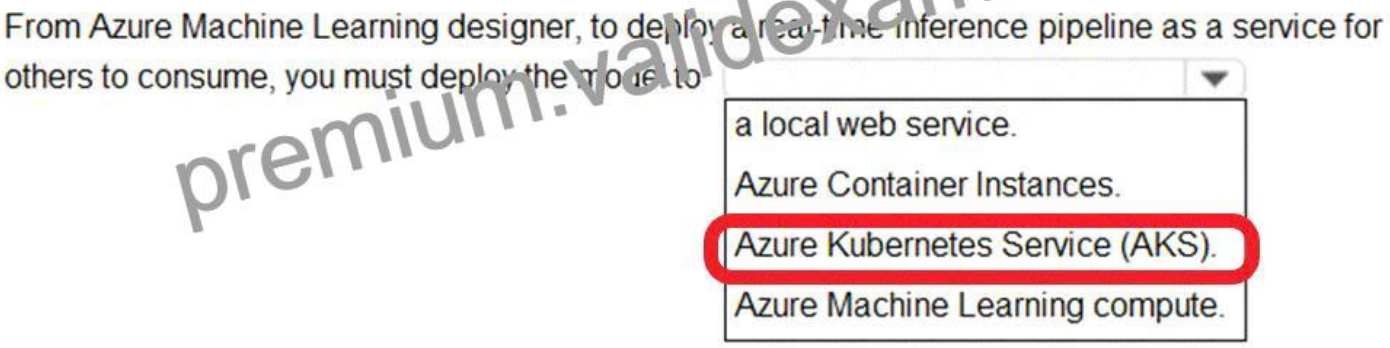
From Azure Machine Learning designer, to deploy a real-time inference pipeline as a service for others to consume, you must deploy the model to

- a local web service.
- Azure Container Instances.
- Azure Kubernetes Service (AKS).
- Azure Machine Learning compute.

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.	○	○

Explanation

Answer Area



To perform real-time inferencing, you must deploy a pipeline as a real-time endpoint.

Real-time endpoints must be deployed to an Azure Kubernetes Service cluster.

Reference:

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

The Microsoft AI-900 exam, usually known as the Microsoft Azure AI Fundamentals, is well suited to baseline-level IT specialists with knowledge of artificial intelligence (AI) & Machine Learning (ML), and the relevant Microsoft Azure concepts. This is the only test that you should pass to qualify for the Microsoft Certified: Azure AI Fundamentals certification.

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