

## Exam AI-900 (2026/01/11)

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Question #1

Topic 1

A company employs a team of customer service agents to provide telephone and email support to customers. The company develops a webchat bot to provide automated answers to common customer queries. Which business benefit should the company expect as a result of creating the webchat bot solution?

- A. increased sales
- B. a reduced workload for the customer service agents **Most Voted**
- C. improved product reliability

**Correct Answer:** B

*Community vote distribution*

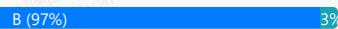
B (100%)

For a machine learning progress, how should you split data for training and evaluation?

- A. Use features for training and labels for evaluation.
- B. Randomly split the data into rows for training and rows for evaluation. **Most Voted**
- C. Use labels for training and features for evaluation.
- D. Randomly split the data into columns for training and columns for evaluation.

**Correct Answer:** B

*Community vote distribution*



**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.

		Actual	
		1	0
Predicted	1	11	5
	0	1033	<b>13,951</b>

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
<b>13,951</b>

There are [answer choice] false negatives.

5
11
1,033
<b>13,951</b>

### Answer Area

There are [answer choice] correctly predicted positives.

5
11
1,033
13,951

Correct Answer:

There are [answer choice] false negatives.

5
11
1,033
13,951

Box 1: 11 -

		Predicted	
		Positive	Negative
Actual True	TP	FN	
	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>

You build a machine learning model by using the automated machine learning user interface (UI).

You need to ensure that the model meets the Microsoft transparency principle for responsible AI.

What should you do?

- A. Set Validation type to Auto.
- B. Enable Explain best model. **Most Voted**
- C. Set Primary metric to accuracy.
- D. Set Max concurrent iterations to 0.

**Correct Answer:** B

*Community vote distribution*



**HOTSPOT -**

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

NOTE: Each correct selection is worth one point.

Hot Area:

**Answer Area**

Statements	Yes	No
------------	-----	----

Forecasting housing prices based on historical data is an example of anomaly detection.

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.

**Correct Answer:****Answer Area**

Statements	Yes	No
------------	-----	----

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.

Anomaly detection encompasses many important tasks in machine learning:

Identifying transactions that are potentially fraudulent.

Learning patterns that indicate that a network intrusion has occurred.

Finding abnormal clusters of patients.

Checking values entered into a system.

Reference:

<https://docs.microsoft.com/en-us/azure/machine-learning/studio-module-reference/anomaly-detection>

**HOTSPOT -**

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

Hot 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

**Answer Area**

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

**Correct Answer:**

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

Reliability and safety:

AI systems need to be reliable and safe in order to be trusted. It is important for a system to perform as it was originally designed and for it to respond safely to new situations. Its inherent resilience should resist intended or unintended manipulation. Rigorous testing and validation should be established for operating conditions to ensure that the system responds safely to edge cases, and A/B testing and champion/challenger methods should be integrated into the evaluation process.

An AI system's performance can degrade over time, so a robust monitoring and model tracking process needs to be established to reactively and proactively measure the model's performance and retrain it, as necessary, to modernize it.

Reference:

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

## 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:

Workloads Types	Answer Area
Anomaly detection	Workload Type
Computer vision	Workload Type
Conversational AI	Workload Type
Knowledge mining	
Natural language processing	

Correct Answer:	Workloads Types	Answer Area
	Anomaly detection	Conversational AI
	Computer vision	Computer vision
	Conversational AI	Natural language processing
	Knowledge mining	
	Natural language processing	

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>

You are designing an AI system that empowers everyone, including people who have hearing, visual, and other impairments. This is an example of which Microsoft guiding principle for responsible AI?

- A. fairness
- B. inclusiveness **Most Voted**
- C. reliability and safety
- D. accountability

**Correct Answer:** B

*Community vote distribution*

 B (100%)



**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:

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

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

**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>

**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.**

inclusiveness
accountability
reliability and safety
fairness

**principle  
of the**

**Correct Answer:**

**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.**

inclusiveness
accountability
reliability and safety
fairness

**principle  
of the**

**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>

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. **Most Voted**
- D. Ensure that a training dataset is representative of the population.

**Correct Answer:** C

*Community vote distribution*



## 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**

- Anomaly detection
- Computer vision
- Machine Learning (Regression)
- Natural language processing

**Answer Area**

- |               |   |
|---------------|---|
| Workload Type | Identify handwritten letters.                 |
| Workload Type | Predict the sentiment of a social media post. |
| Workload Type | Identify a fraudulent credit card payment.    |
| Workload Type | Predict next month's toy sales.               |

**Correct Answer:****Workload Types**

- Anomaly detection
- Computer vision
- Machine Learning (Regression)
- Natural language processing

**Answer Area**

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

Reference:

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

HOTSPOT -

Select the answer that correctly completes the sentence.

### Answer Area

▼
<p>Key phrase extraction Language detection Named Entity Recognition (NER) Sentiment Analysis</p>

used to extract dates, quantities, and locations from text.

**Correct Answer:**

### Answer Area

▼
<p>Key phrase extraction Language detection <b>Named Entity Recognition (NER)</b> Sentiment Analysis</p>

used to extract dates, quantities, and locations from text.

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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 **Most Voted**

D. fairness **Most Voted**

E. opinionatedness

F. reliability and safety **Most Voted**

**Correct Answer:** CDF

*Community vote distribution*

CDF (100%)

HOTSPOT -

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

Hot 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 recognizer (OCR).
semantic segmentation.

**Answer Area**

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

**Correct Answer:**

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

Reference:

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

## HOTSPOT -

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

Hot Area:

**Answer Area**

Feature engineering
Feature selection
Model evaluation
Model training

is used to generate additional features.

**Correct Answer:**

**Answer Area**

Feature engineering
Feature selection
Model evaluation
Model training

is used to generate additional features.

Reference:

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

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 **Most Voted**
- C. the Describe Image operation in the Computer Vision service
- D. the Analyze Image operation in the Computer Vision service

**Correct Answer:** B

*Community vote distribution*



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 **Most Voted**

B. inclusiveness

C. fairness

D. privacy and security

**Correct Answer:** A

*Community vote distribution*

A (95%) 5%



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>

**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:

Principles	Answer Area
Fairness	The system must not discriminate based on gender, race
Privacy and security	Personal data must be visible only to approve
Reliability and safety	
Transparency	Automated decision-making processes must be recorded so that approved users can identify why a decision was made

**Correct Answer:**

Principles	Answer Area
Fairness	The system must not discriminate based on gender, race
Privacy and security	Personal data must be visible only to approve
Reliability and safety	
Transparency	Automated decision-making processes must be recorded so that approved users can identify why a decision was made

**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>

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:

**Processes**

data encryption

model retraining

model training

data preparation

model evaluation

**Answer Area**

Correct Answer:	Processes	Answer Area
	data encryption	data preparation
	model retraining	model training
		model evaluation

Reference:

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

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 **Most Voted**

C. Establish a risk governance committee that includes members of the legal team, members of the risk management team, and a privacy officer **Most Voted**

D. Prevent the disclosure of the use of AI-based algorithms for automated decision making

**Correct Answer:** BC

*Community vote distribution*

BC (100%)

**HOTSPOT -**

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

Hot Area:

**Answer Area**

According to Microsoft's  principle of responsible AI,

accountability
fairness
inclusiveness
transparency

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

**Correct Answer:****Answer Area**

According to Microsoft's  principle of responsible AI,

accountability
fairness
inclusiveness
transparency

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

**Reference:**

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

HOTSPOT -

Select the answer that correctly completes the sentence.

Hot Area:

### Answer Area

According to Microsoft's  principle of responsible AI,

- accountability
- fairness
- inclusiveness
- transparency

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

Correct Answer:

### Answer Area

According to Microsoft's  principle of responsible AI,

- accountability
- fairness
- inclusiveness
- transparency

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

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.

Reference:

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

## 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**

Anomaly detection

Computer vision

Knowledge mining

Natural language processing

**Answer Area**

Workload type

An automated chatbot to answer questions about refunds and exchanges

Workload type

Determining whether a photo contains a person

Workload type

Determining whether a review is positive or negative

**Correct Answer:****Workload Types**

Anomaly detection

Computer vision

Knowledge mining

Natural language processing

**Answer Area**

Knowledge mining

An automated chatbot to answer questions about refunds and exchanges

Computer vision

Determining whether a photo contains a person

Natural language processing

Determining whether a review is positive or negative

Box 1: Knowledge mining -

You can use Azure Cognitive Search's knowledge mining results and populate your knowledge base of your chatbot.

Box 2: Computer vision -

Box 3: Natural language processing

Natural language processing (NLP) is used for tasks such as sentiment analysis.

Reference:

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

**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:

Learning Types	Answer Area
Feature engineering	Task Examining the values of a confusion matrix
Feature selection	Task Splitting a date into month, day, and year fields
Model deployment	Task Picking temperature and pressure to train a weather model
Model evaluation	
Model training	

**Correct Answer:**

Learning Types	Answer Area
Feature engineering	Model evaluation Examining the values of a confusion matrix
Feature selection	Feature engineering Splitting a date into month, day, and year fields
Model deployment	
Model evaluation	Feature selection Picking temperature and pressure to train a weather model
Model training	

**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>

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.

**Answer Area**

Data values that influence the prediction of a model are called

**Correct Answer:**

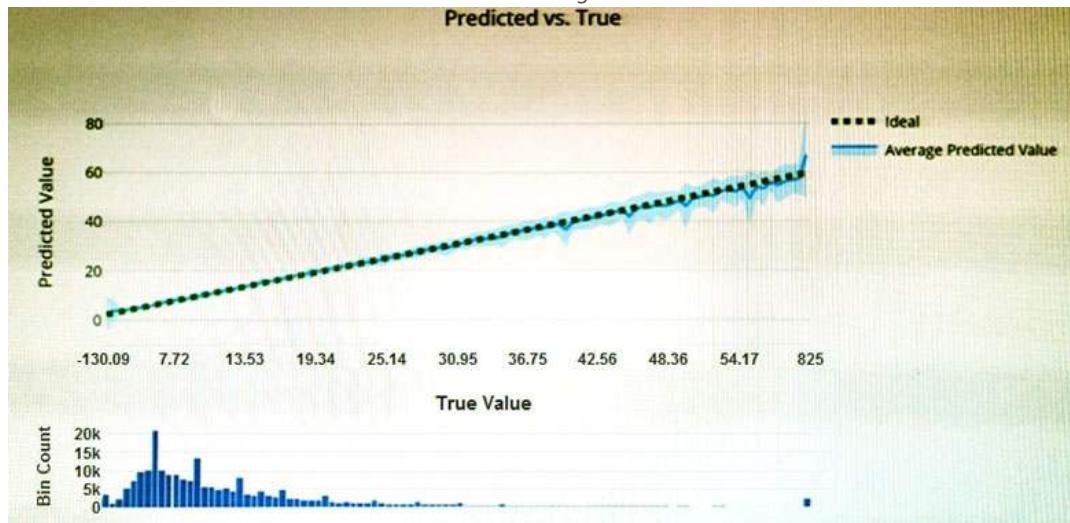
dependant variables.
features.
identifiers.
labels.

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/>

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 **Most Voted**
- C. clustering

**Correct Answer:** B

*Community vote distribution*

B (100%)

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 **Most Voted**

C. clustering

**Correct Answer:** B

*Community vote distribution*

B (100%)

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 **Most Voted**
- C. the fare of individual taxi journeys
- D. the trip ID of individual taxi journeys

**Correct Answer:** B

*Community vote distribution*



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 **Most Voted**

C. clustering

**Correct Answer:** B

*Community vote distribution*

B (100%)

**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**

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

**Answer Area****Correct Answer:**

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

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>

**HOTSPOT -**

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

Hot Area:

**Answer Area**

A banking system that predicts whether a loan will be repaid is an example of  
the ▾ type of machine learning.

classification
regression
clustering

**Correct Answer:****Answer Area**

A banking system that predicts whether a loan will be repaid is an example of  
the ▾ type of machine learning.

classification
regression
clustering

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

**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
Labelling is the process of tagging training data with known values.	<input type="radio"/>	<input type="radio"/>
You should evaluate a model by using the same data used to train the model.	<input type="radio"/>	<input type="radio"/>
Accuracy is always the primary metric used to measure a model's performance.	<input type="radio"/>	<input type="radio"/>

**Answer Area**

Statements	Yes	No
Labelling is the process of tagging training data with known values.	<input checked="" type="radio"/>	<input type="radio"/>
You should evaluate a model by using the same data used to train the model.	<input type="radio"/>	<input checked="" type="radio"/>
Accuracy is always the primary metric used to measure a model's performance.	<input type="radio"/>	<input checked="" type="radio"/>

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 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>

Which service should you use to extract text, key/value pairs, and table data automatically from scanned documents?

- A. Form Recognizer **Most Voted**
- B. Text Analytics
- C. Language Understanding
- D. Custom Vision

**Correct Answer:** A

*Community vote distribution*

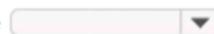


**HOTSPOT -**

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

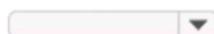
Hot Area:

**Answer Area**

The ability to extract subtotals and totals from a receipt is a capability of the  service.

Custom Vision
Form Recognizer
Ink Recognizer
Text Analytics

**Answer Area**

The ability to extract subtotals and totals from a receipt is a capability of the  service.

**Correct Answer:**

Custom Vision
Form Recognizer
Ink Recognizer
Text Analytics

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/>

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 **Most Voted**
- D. the REST endpoint **Most Voted**

**Correct Answer:** CD

*Community vote distribution*

CD (100%)

**HOTSPOT -**

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

Hot 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.

**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

**Correct Answer:**

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

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>

**HOTSPOT -**

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

Hot Area:

**Answer Area**

Predicting how many hours of overtime a delivery person will work based on the number of order received is an example of

classification.
clustering.
regression.

**Answer Area**

Predicting how many hours of overtime a delivery person will work based on the number of order received is an example of

**Correct Answer:**

classification.
clustering.
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.

Incorrect Answers:

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

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

Reference:

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

<https://docs.microsoft.com/en-us/azure/machine-learning/studio-module-reference/machine-learning-initialize-model-clustering>

**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
------------	-----	----

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

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

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

**Answer Area**

Statements	Yes	No
------------	-----	----

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

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

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

Box 1: Yes -

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

Box 2: Yes -

With the designer you can connect the modules to create a pipeline draft.

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

Box 3: No -

Reference:

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

**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**

Household Income:

A feature  
A label

House Price Category:

A feature  
A label

**Answer Area**

Household Income:

A feature  
A label

**Correct Answer:**

House Price Category:

A feature  
A label

Reference:

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

**HOTSPOT -**

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

Hot Area:

**Answer Area**

Azure Machine Learning designer lets you create machine learning models by

- |  |
|--|
| adding and connecting modules on a visual canvas.                      |
| automatically performing common data preparation tasks.                |
| automatically selecting an algorithm to build the most accurate model. |
| using a code-first notebook experience.                                |

**Answer Area**

Azure Machine Learning designer lets you create machine learning models by

**Correct Answer:**

- |  |
|--|
| adding and connecting modules on a visual canvas.                      |
| automatically performing common data preparation tasks.                |
| automatically selecting an algorithm to build the most accurate model. |
| using a code-first notebook experience.                                |

Reference:

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

**HOTSPOT -**

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

NOTE: Each correct selection is worth one point.

Hot Area:

**Answer Area**

Statements	Yes	No
Automated machine learning provides you with the ability to include custom Python scripts in a training pipeline.	<input type="radio"/>	<input type="radio"/>
Automated machine learning implements machine learning solutions without the need for programming experience.	<input type="radio"/>	<input type="radio"/>
Automated machine learning provides you with the ability to visually connect datasets and modules on an interactive canvas.	<input type="radio"/>	<input type="radio"/>

Answer Area			
Correct Answer:	Statements	Yes	No
	Automated machine learning provides you with the ability to include custom Python scripts in a training pipeline.	<input type="radio"/>	<input checked="" type="radio"/>
	Automated machine learning implements machine learning solutions without the need for programming experience.	<input checked="" type="radio"/>	<input type="radio"/>
	Automated machine learning provides you with the ability to visually connect datasets and modules on an interactive canvas.	<input type="radio"/>	<input checked="" type="radio"/>

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 **Most Voted**

**Correct Answer:** C

*Community vote distribution*

C (100%)

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 **Most Voted**

**Correct Answer:** C

*Community vote distribution*

C (100%)

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. **Most Voted**
- 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. **Most Voted**
- D. Create a dataset from a comma-separated value (CSV) file.

**Correct Answer:** AC

*Community vote distribution*



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 **Most Voted**

B. Last Name

C. Age **Most Voted**

D. Income Range

E. First Name

**Correct Answer:** AC

*Community vote distribution*

AC (100%)

You are building a tool that will process images from retail stores and identify the products of competitors.

The solution will use a custom model.

Which Azure Cognitive Services service should you use?

A. Custom Vision **Most Voted**

B. Form Recognizer

C. Face

D. Computer Vision

**Correct Answer:** A

*Community vote distribution*



**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
Organizing documents into groups based on similarities of the text contained in the documents is an example of clustering.	<input type="radio"/>	<input type="radio"/>
Grouping similar patients based on symptoms and diagnostic test results is an example of clustering.	<input type="radio"/>	<input type="radio"/>
Predicting whether a person will develop mild, moderate, or severe allergy symptoms based on pollen count is an example of clustering.	<input type="radio"/>	<input type="radio"/>

Correct Answer:

**Answer Area**

Statements	Yes	No
Organizing documents into groups based on similarities of the text contained in the documents is an example of clustering.	<input checked="" type="radio"/>	<input type="radio"/>
Grouping similar patients based on symptoms and diagnostic test results is an example of clustering.	<input checked="" type="radio"/>	<input type="radio"/>
Predicting whether a person will develop mild, moderate, or severe allergy symptoms based on pollen count is an example of clustering.	<input type="radio"/>	<input checked="" type="radio"/>

Clustering is a machine learning task that is used to group instances of data into clusters that contain similar characteristics.

Clustering can also be used to identify relationships in a dataset

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

Reference:

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

**HOTSPOT -**

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

NOTE: Each correct selection is worth one point.

Hot Area:

**Answer Area**

Statements	Yes	No
A validation set includes the set of input examples that will be used to train a mode.	<input type="radio"/>	<input type="radio"/>
A validation set can be used to determine how well a model predicts labels.	<input type="radio"/>	<input type="radio"/>
A validation set can be used to verify that all the training data was used to train the model.	<input type="radio"/>	<input type="radio"/>

Correct Answer:

**Answer Area**

Statements	Yes	No
A validation set includes the set of input examples that will be used to train a mode.	<input type="radio"/>	<input checked="" type="radio"/>
A validation set can be used to determine how well a model predicts labels.	<input checked="" type="radio"/>	<input type="radio"/>
A validation set can be used to verify that all the training data was used to train the model.	<input type="radio"/>	<input checked="" type="radio"/>

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/>

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

NOTE: Each correct selection is worth one point.

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

**Correct Answer:** AC

*Community vote distribution*

AC (100%)

**HOTSPOT -**

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

Hot Area:

**Answer Area**

Predicting how many vehicles will travel across a bridge on a given day is  
an example of

classification.
clustering.
regression.

**Correct Answer:****Answer Area**

Predicting how many vehicles will travel across a bridge on a given day is  
an example of

classification.
clustering.
regression.

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

Reference:

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

## 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

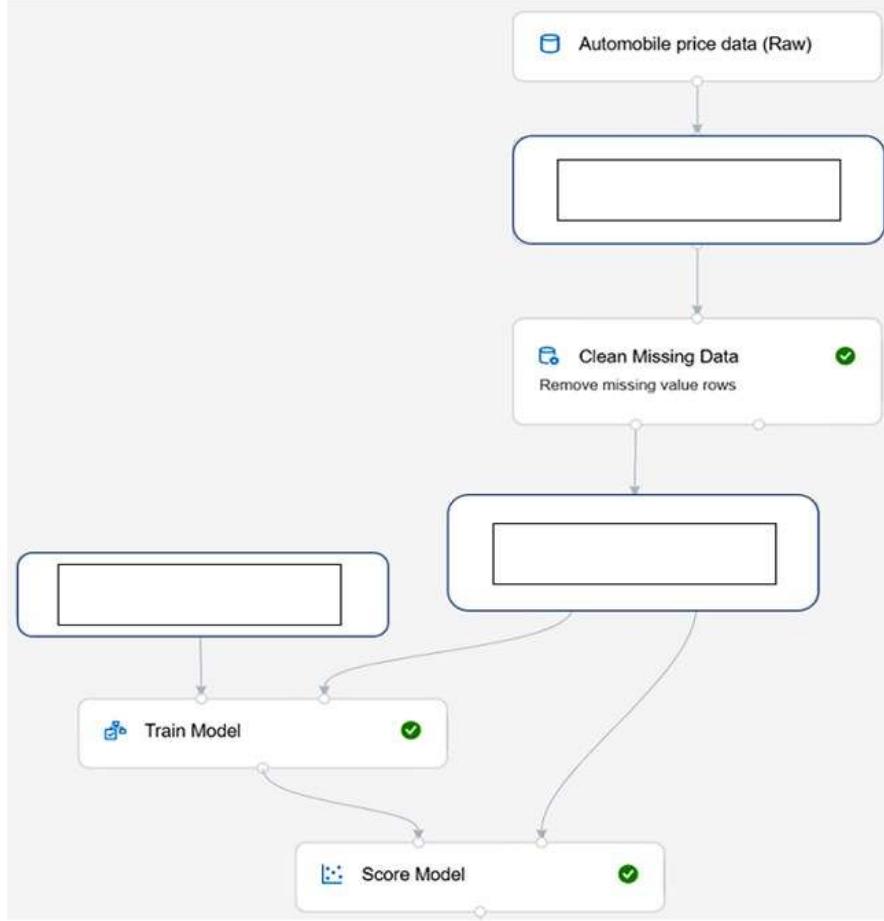
K-Means Clustering

Linear Regression

Split Data

Select Columns in Dataset

Summarize Data

**Answer Area**

**Correct Answer:**

**Modules**

Convert to CSV

K-Means Clustering

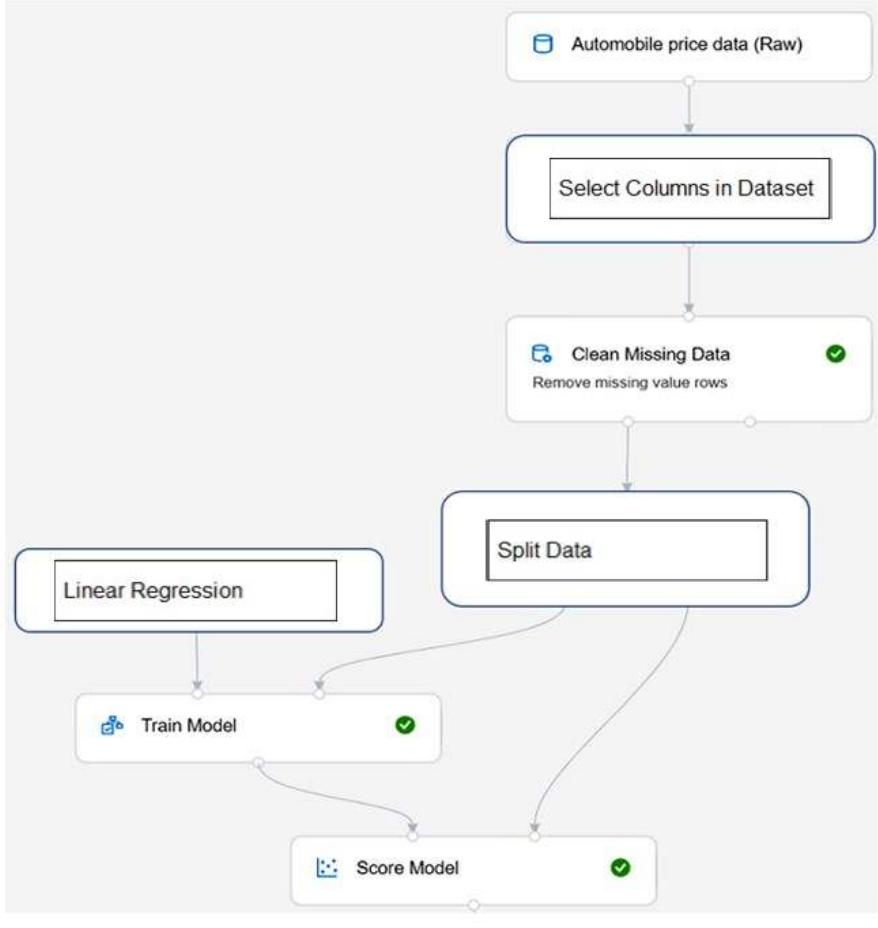
Linear Regression

Split Data

Select Columns in Dataset

Summarize Data

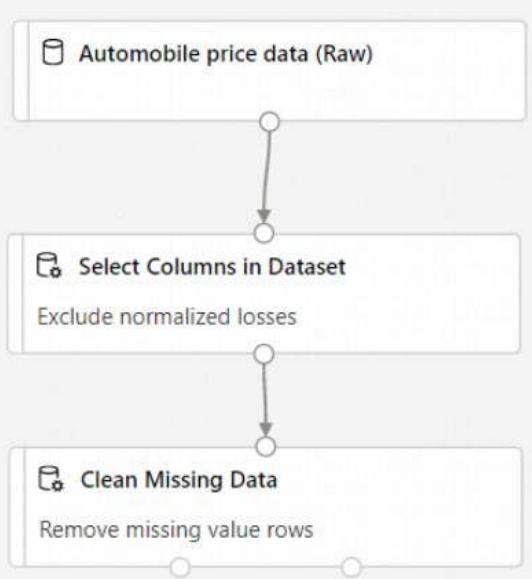
**Answer Area**



Box 1: Select Columns in Dataset

For Columns to be cleaned, choose the columns that contain the missing values you want to change. You can choose multiple columns, but you must use the same replacement method in all selected columns.

Example:



Box 2: Split data -

Splitting data is a common task in machine learning. You will split your data into two separate datasets. One dataset will train the model and the other will test how well the model performed.

Box 3: Linear regression -

Because you want to predict price, which is a number, you can use a regression algorithm. For this example, you use a linear regression model.

Reference:

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

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

- A. classification
- B. regression
- C. clustering **Most Voted**

**Correct Answer:** C

*Community vote distribution*

C (100%)

HOTSPOT -

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

Hot Area:

### Answer Area

Classification
Clustering
Regression

models can be used to predict the sale price of auctioned items.

Correct Answer:

### Answer Area

Classification
Clustering
Regression

models can be used to predict the sale price of auctioned items.

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

Reference:

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

Which metric can you use to evaluate a classification model?

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

**Correct Answer:** A

*Community vote distribution*

A (100%)

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 **Most Voted**

B. compute

C. pipeline

D. module **Most Voted**

**Correct Answer:** AD

*Community vote distribution*

AD (100%)

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 **Most Voted**
- D. Join Data

**Correct Answer:** C

*Community vote distribution*

 C (100%)

**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:

<b>Learning Types</b>	<b>Answer Area</b>
Classification	Learning Type
Clustering	Learning Type
Regression	Learning Type

Predict how many minutes late a flight will arrive based on the amount of snowfall at an airport.  
Segment customers into different groups to support a marketing department.  
Predict whether a student will complete a university course.

**Correct Answer:**

<b>Learning Types</b>	<b>Answer Area</b>
Classification	Regression
Clustering	Clustering
Regression	Classification

Predict how many minutes late a flight will arrive based on the amount of snowfall at an airport.  
Segment customers into different groups to support a marketing department.  
Predict whether a student will complete a university course.

**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: 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.

**Box 3: Classification -**

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

Reference:

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

**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.

**Correct Answer:**

**Answer Area**

▼	
Accuracy	
<b>Confidence</b>	
Root Mean Square Error	
Sentiment	

is the calculated probability of a correct image classification.

HOTSPOT -

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

Hot Area:

### Answer Area

Ensuring an AI system does not provide a prediction when important fields contain unusual or missing values is  principle for responsible AI.

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

### Answer Area

Correct Answer:

Ensuring an AI system does not provide a prediction when important fields contain unusual or missing values is  principle for responsible AI.

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

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:

**Answer Area**

Ensuring that the numeric variables in training data are on a similar scale is an example of

<input type="checkbox"/>
data ingestion.
feature engineering.
feature selection.
model training.

Correct Answer:

**Answer Area**

Ensuring that the numeric variables in training data are on a similar scale is an example of

<input type="checkbox"/>
data ingestion.
feature engineering.
feature selection.
model training.

HOTSPOT -

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

Hot Area:

### Answer Area

Assigning classes to images before training a classification model is an example of

	▼
evaluation.	
feature engineering	
hyperparameter tuning.	
labeling.	

Correct Answer:

### Answer Area

Assigning classes to images before training a classification model is an example of

	▼
evaluation.	
feature engineering	
hyperparameter tuning.	
labeling.	

Reference:

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

## HOTSPOT -

You have an Azure Machine Learning model that predicts product quality. The model has a training dataset that contains 50,000 records. A sample of the data is shown in the following table.

Date	Time	Mass (kg)	Temperature (C)	Quality Test
26/02/2021	15:31:07	2.108	62.5	Pass
26/02/2021	15:31:39	2.099	62.4	Pass
26/02/2021	02:32:21	2.098	66.4	Fail

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

NOTE: Each correct selection is worth one point.

Hot Area:

## Answer Area

- | Statements                  | Yes                   | No                    |
|-----------------------------|-----------------------|-----------------------|
| Mass (kg) is a feature.     | <input type="radio"/> | <input type="radio"/> |
| Quality Test is a label.    | <input type="radio"/> | <input type="radio"/> |
| Temperature (C) is a label. | <input type="radio"/> | <input type="radio"/> |

Correct Answer:

## Answer Area

- | Statements                  | Yes                              | No                               |
|-----------------------------|----------------------------------|----------------------------------|
| Mass (kg) is a feature.     | <input checked="" type="radio"/> | <input type="radio"/>            |
| Quality Test is a label.    | <input checked="" type="radio"/> | <input type="radio"/>            |
| Temperature (C) is a label. | <input type="radio"/>            | <input checked="" type="radio"/> |

Reference:

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

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 train a regression model by using unlabeled data.	<input type="radio"/>	<input type="radio"/>
The classification technique is used to predict sequential numerical data over time.	<input type="radio"/>	<input type="radio"/>
Grouping items by their common characteristics is an example of clustering.	<input type="radio"/>	<input type="radio"/>

Correct Answer:

### Answer Area

Statements	Yes	No
You train a regression model by using unlabeled data.	<input type="radio"/>	<input checked="" type="radio"/>
The classification technique is used to predict sequential numerical data over time.	<input type="radio"/>	<input checked="" type="radio"/>
Grouping items by their common characteristics is an example of clustering.	<input checked="" type="radio"/>	<input type="radio"/>

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>

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. **Most Voted**
- D. Use the model for real-time predictions.
- E. Remove records that have missing values. **Most Voted**

**Correct Answer:** CE

*Community vote distribution*

CE (100%)

You need to predict the animal population of an area.

Which Azure Machine Learning type should you use?

A. regression **Most Voted**

B. clustering

C. classification

**Correct Answer:** A

*Community vote distribution*

A (100%)

Which two languages can you use to write custom code for Azure Machine Learning designer? Each correct answer presents a complete solution.

NOTE: Each correct selection is worth one point.

A. Python **Most Voted**

B. R **Most Voted**

C. C#

D. Scala

**Correct Answer:** AB

*Community vote distribution*





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
For a regression model, labels must be numeric.	<input type="radio"/>	<input type="radio"/>
For a clustering model, labels must be used.	<input type="radio"/>	<input type="radio"/>
For a classification model, labels must be numeric.	<input type="radio"/>	<input type="radio"/>

Correct Answer:

### Answer Area

Statements	Yes	No
For a regression model, labels must be numeric.	<input checked="" type="radio"/>	<input type="radio"/>
For a clustering model, labels must be used.	<input type="radio"/>	<input checked="" type="radio"/>
For a classification model, labels must be numeric.	<input type="radio"/>	<input checked="" type="radio"/>

Box 1: Yes -

For regression problems, the label column must contain numeric data that represents the response variable. Ideally the numeric data represents a continuous scale.

Box 2: No -

K-Means Clustering -

Because the K-means algorithm is an unsupervised learning method, a label column is optional.

If your data includes a label, you can use the label values to guide selection of the clusters and optimize the model.

If your data has no label, the algorithm creates clusters representing possible categories, based solely on the data.

Box 3: No -

For classification problems, the label column must contain either categorical values or discrete values. Some examples might be a yes/no rating, a disease classification code or name, or an income group. If you pick a noncategorical column, the component will return an error during training.

Reference:

<https://docs.microsoft.com/en-us/azure/machine-learning/component-reference/train-model> <https://docs.microsoft.com/en-us/azure/machine-learning/component-reference/k-means-clustering>

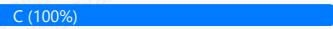
Your company wants to build a recycling machine for bottles. The recycling machine must automatically identify bottles of the correct shape and reject all other items.

Which type of AI workload should the company use?

- A. anomaly detection
- B. conversational AI
- C. computer vision **Most Voted**
- D. natural language processing

**Correct Answer:** C

*Community vote distribution*



## 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
------------	-----	----

When creating an object detection model in the Custom Vision service,  
you must choose a classification type of either **Multilabel** or **Multiclass**.

You can create an object detection model in the Custom Vision service to  
find the location of content within an image.

When creating an object detection model in the Custom Vision service,  
you can select from a set of predefined domains.

**Answer Area**

Statements	Yes	No
------------	-----	----

**Correct Answer:** When creating an object detection model in the Custom Vision service,  
you must choose a classification type of either **Multilabel** or **Multiclass**.

You can create an object detection model in the Custom Vision service to  
find the location of content within an image.

When creating an object detection model in the Custom Vision service,  
you can select from a set of predefined domains.

Reference:

<https://docs.microsoft.com/en-us/azure/cognitive-services/custom-vision-service/get-started-build-detector>

In which two scenarios can you use the Form Recognizer service? Each correct answer presents a complete solution.

NOTE: Each correct selection is worth one point.

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

**Correct Answer:** AD

*Community vote distribution*

AD (100%)

HOTSPOT -

Select the answer that correctly completes the sentence.

Hot Area:

### Answer Area

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

- forecasting.
- computer vision.
- conversational AI.
- anomaly detection.

Correct Answer:

### Answer Area

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

- forecasting.
- computer vision.
- conversational AI.
- anomaly detection.

Reference:

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

**HOTSPOT -**

You have a database that contains a list of employees and their photos.

You are tagging new photos of the employees.

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

NOTE: Each correct selection is worth one point.

Hot Area:

**Answer Area**

Statements	Yes	No
The Face service can be used to perform facial recognition for employees	<input type="radio"/>	<input type="radio"/>
The Face service will be more accurate if you provide more sample photos of each employee from different angles.	<input type="radio"/>	<input type="radio"/>
If an employee is wearing sunglasses, the Face service will always fail to recognize the employee.	<input type="radio"/>	<input type="radio"/>

**Answer Area**

Statements	Yes	No
Correct Answer: The Face service can be used to perform facial recognition for employees	<input checked="" type="radio"/>	<input type="radio"/>
The Face service will be more accurate if you provide more sample photos of each employee from different angles.	<input checked="" type="radio"/>	<input type="radio"/>
If an employee is wearing sunglasses, the Face service will always fail to recognize the employee.	<input type="radio"/>	<input checked="" type="radio"/>

Reference:

<https://docs.microsoft.com/en-us/azure/cognitive-services/face/overview> <https://docs.microsoft.com/en-us/azure/cognitive-services/face/concepts/face-detection>

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) **Most Voted**

**Correct Answer:** D

*Community vote distribution*

D (100%)



HOTSPOT -

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

NOTE: Each correct selection is worth one point.

Hot Area:

**Answer Area**

Statements	Yes	No
The Custom Vision service can be used to detect objects in an image.	<input type="radio"/>	<input type="radio"/>
The Custom Vision service requires that you provide your own data to train the model.	<input type="radio"/>	<input type="radio"/>
The Custom Vision service can be used to analyze video files.	<input type="radio"/>	<input type="radio"/>

**Correct Answer:**

**Answer Area**

Statements	Yes	No
The Custom Vision service can be used to detect objects in an image.	<input checked="" type="radio"/>	<input type="radio"/>
The Custom Vision service requires that you provide your own data to train the model.	<input checked="" type="radio"/>	<input type="radio"/>
The Custom Vision service can be used to analyze video files.	<input type="radio"/>	<input checked="" type="radio"/>

Box 1: Yes -

Custom Vision functionality can be divided into two features. Image classification applies one or more labels to an image. Object detection is similar, but it also returns the coordinates in the image where the applied label(s) can be found.

Box 2: Yes -

The Custom Vision service uses a machine learning algorithm to analyze images. You, the developer, submit groups of images that feature and lack the characteristics in question. You label the images yourself at the time of submission. Then, the algorithm trains to this data and calculates its own accuracy by testing itself on those same images.

Box 3: No -

Custom Vision service can be used only on graphic files.

Reference:

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

You are processing photos of runners in a race.

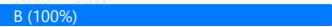
You need to read the numbers on the runners' shirts to identify the runners in the photos.

Which type of computer vision should you use?

- A. facial recognition
- B. optical character recognition (OCR) **Most Voted**
- C. image classification
- D. object detection

**Correct Answer:** B

*Community vote distribution*





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**DRAG DROP -**

Match the types of machine learning to the appropriate scenarios.

To answer, drag the appropriate machine learning type from the column on the left to its scenario on the right. Each machine learning type may be used once, more than once, or not at all.

NOTE: Each correct selection is worth one point.

Select and Place:

**Machine Learning Types**

- Facial detection
- Facial recognition
- Image classification
- Object detection
- Optical character recognition (OCR)
- Semantic segmentation

**Answer Area**

- | Machine Learning Type |  |
|-----------------------|--|
| Image classification  | Separate images of polar bears and brown bears.        |
| Object detection      | Determine the location of a bear in a photo.           |
| Semantic segmentation | Determine which pixels in an image are part of a bear. |

**Correct Answer:****Machine Learning Types**

- Facial detection
- Facial recognition
- Image classification
- Object detection
- Optical character recognition (OCR)
- Semantic segmentation

**Answer Area**

- | Machine Learning Type |  |
|-----------------------|--|
| Image classification  | Separate images of polar bears and brown bears.        |
| Object detection      | Determine the location of a bear in a photo.           |
| Semantic segmentation | Determine which pixels in an image are part of a bear. |

**Box 1: Image classification -**

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

**Box 2: Object detection -**

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

**Box 3: Semantic Segmentation -**

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

Reference:

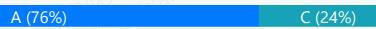
<https://developers.google.com/machine-learning/practica/image-classification> <https://docs.microsoft.com/en-us/dotnet/machine-learning/tutorials/object-detection-model-builder> <https://nanonets.com/blog/how-to-do-semantic-segmentation-using-deep-learning/>

You use drones to identify where weeds grow between rows of crops to send an instruction for the removal of the weeds. This is an example of which type of computer vision?

- A. object detection **Most Voted**
- B. optical character recognition (OCR)
- C. scene segmentation

**Correct Answer:** A

*Community vote distribution*



## 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?

Correct Answer:	Tasks	Answer Area
	grouping	verification      Do two images of a face belong to the same person?
	identification	similarity      Does this person look like other people?
	similarity	grouping      Do all the faces belong together?
	verification	identification      Who is this person in this group of people?

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:

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



**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:

Workloads Types	Answer Area
Facial recognition	Workload Type
Image classification	Workload Type
Object detection	Workload Type
Optical character recognition (OCR)	Workload Type

**Correct Answer:**

Workloads Types	Answer Area
Facial recognition	Facial recognition
Image classification	Optical character recognition (OCR)
Object detection	Object detection
Optical character recognition (OCR)	

**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: Object 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>

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 **Most Voted**
- C. image classification
- D. face detection

**Correct Answer:** B

*Community vote distribution*

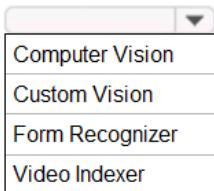
B (100%)

**HOTSPOT -**

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

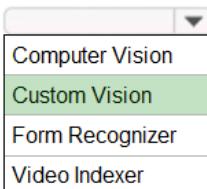
Hot Area:

**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**

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

**Correct Answer:**

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

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:

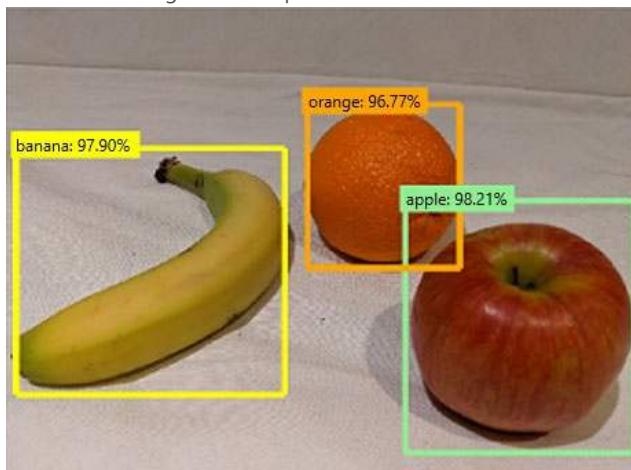
Computer Vision:

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>

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 **Most Voted**
- B. face detection
- C. optical character recognition (OCR)
- D. image classification

**Correct Answer:** A

*Community vote distribution*

A (100%)

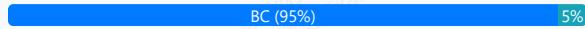
What are two tasks that can be performed by using the Computer Vision service? Each correct answer presents a complete solution.

NOTE: Each correct selection is worth one point.

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

**Correct Answer:** BC

*Community vote distribution*



What is a use case for classification?

- A. predicting how many cups of coffee a person will drink based on how many hours the person slept the previous night.
- B. analyzing the contents of images and grouping images that have similar colors
- C. predicting whether someone uses a bicycle to travel to work based on the distance from home to work **Most Voted**
- D. predicting how many minutes it will take someone to run a race based on past race times

**Correct Answer:** C

*Community vote distribution*

 C (100%)

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. **Most Voted**

C. Detect the color scheme in an image **Most Voted**

D. Translate text between languages.

E. Extract key phrases.

**Correct Answer:** BC

*Community vote distribution*

BC (100%)

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

- A. Face **Most Voted**
- B. Form Recognizer
- C. Text Analytics
- D. Computer Vision

**Correct Answer:** A

*Community vote distribution*



In which two scenarios can you use the Form Recognizer service? Each correct answer presents a complete solution.

NOTE: Each correct selection is worth one point.

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

**Correct Answer:** AC

*Community vote distribution*

AC (100%)

**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:

<b>Tasks</b>	<b>Answer Area</b>
grouping	Task      Do two images of a face belong to the same person?
identification	Task      Does this person look like other people?
similarity	Task      Who is this person in this group of people?
verification	

**Correct Answer:**

<b>Tasks</b>	<b>Answer Area</b>
grouping	verification      Do two images of a face belong to the same person?
identification	similarity      Does this person look like other people?
similarity	identification      Who is this person in this group of people?
verification	

Box 1: verification -

Identity verification -

Modern enterprises and apps can use the Face identification and Face verification operations to verify that a user is who they claim to be.

Box 2: similarity -

The Find Similar operation does face matching between a target face and a set of candidate faces, finding a smaller set of faces that look similar to the target face.

This is useful for doing a face search by image.

The service supports two working modes, matchPerson and matchFace. The matchPerson mode returns similar faces after filtering for the same person by using the Verify API. The matchFace mode ignores the same-person filter. It returns a list of similar candidate faces that may or may not belong to the same person.

Box 3: identification -

Face identification can address "one-to-many" matching of one face in an image to a set of faces in a secure repository. Match candidates are returned based on how closely their face data matches the query face. This scenario is used in granting building or airport access to a certain group of people or verifying the user of a device.

Reference:

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

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

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

**Correct Answer:** D

*Community vote distribution*

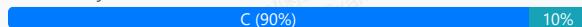
D (100%)

Which service should you use to extract text, key/value pairs, and table data automatically from scanned documents?

- A. Custom Vision
- B. Face
- C. Form Recognizer **Most Voted**
- D. Language

**Correct Answer:** C

*Community vote distribution*



HOTSPOT -

Select the answer that correctly completes the sentence.

Hot Area:

### Answer Area

- Object detection
- Facial recognition
- Image classification
- Optical character recognition (OCR)

extracts text from handwritten documents.

Correct Answer:

### Answer Area

- Object detection
- Facial recognition
- Image classification
- Optical character recognition (OCR)

extracts text from handwritten documents.

Handwriting OCR (optical character recognition) is the process of automatically extracting handwritten information from paper, scans and other low-quality digital documents.

Reference:

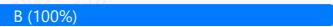
<https://vidado.ai/handwriting-ocr>

You are developing a solution that uses the Text Analytics service.  
You need to identify the main talking points in a collection of documents.  
Which type of natural language processing should you use?

- A. entity recognition
- B. key phrase extraction **Most Voted**
- C. sentiment analysis
- D. language detection

**Correct Answer:** B

*Community vote distribution*



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 **Most Voted**
- C. creating an automated public address system for a train station
- D. creating a transcript of a telephone call or meeting **Most Voted**

**Correct Answer:** BD

*Community vote distribution*

BD (100%)

**HOTSPOT -**

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

Hot Area:

**Answer Area**

While presenting at a conference, your session is transcribed into subtitles for the audience. This is an example of

sentiment analysis.
speech recognition.
speech synthesis.
translation.

**Answer Area**

While presenting at a conference, your session is transcribed into subtitles for the audience. This is an example of

**Correct Answer:**

sentiment analysis.
speech recognition.
speech synthesis.
translation.

Reference:

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

You need to build an app that will read recipe instructions aloud to support users who have reduced vision. Which version service should you use?

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

**Correct Answer:** C

*Community vote distribution*

C (100%)

**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.	<input type="radio"/>	<input type="radio"/>
You can use the Text Analytics service to extract key entities from a call transcript.	<input type="radio"/>	<input type="radio"/>
You can use the Speech service to translate the audio of a call to a different language.	<input type="radio"/>	<input type="radio"/>

**Answer Area**

**Correct Answer:**

Statements	Yes	No
You can use the Speech service to transcribe a call to text.	<input checked="" type="radio"/>	<input type="radio"/>
You can use the Text Analytics service to extract key entities from a call transcript.	<input checked="" type="radio"/>	<input type="radio"/>
You can use the Speech service to translate the audio of a call to a different language.	<input checked="" type="radio"/>	<input type="radio"/>

Reference:

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

Your website has a chatbot to assist customers.

You need to detect when a customer is upset based on what the customer types in the chatbot.

Which type of AI workload should you use?

- A. anomaly detection
- B. computer vision
- C. regression
- D. natural language processing Most Voted

**Correct Answer:** D

*Community vote distribution*



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 **Most Voted**

B. Azure Bot Service **Most Voted**

C. Form Recognizer

D. Anomaly Detector

**Correct Answer:** AB

*Community vote distribution*

AB (100%)

In which two scenarios can you use a speech synthesis solution? Each correct answer presents a complete solution.

NOTE: Each correct selection is worth one point.

- A. an automated voice that reads back a credit card number entered into a telephone by using a numeric keypad **Most Voted**
- B. generating live captions for a news broadcast
- C. extracting key phrases from the audio recording of a meeting
- D. an AI character in a computer game that speaks audibly to a player **Most Voted**

**Correct Answer:** AD

*Community vote distribution*

AD (100%)

**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 Translator service to translate text between languages.	<input type="radio"/>	<input type="radio"/>
You can use the Translator service to detect the language of a given text.	<input type="radio"/>	<input type="radio"/>
You can use the Translator service to transcribe audible speech into text.	<input type="radio"/>	<input type="radio"/>

**Correct Answer:****Answer Area**

Statements	Yes	No
You can use the Translator service to translate text between languages.	<input checked="" type="radio"/>	<input type="radio"/>
You can use the Translator service to detect the language of a given text.	<input checked="" type="radio"/>	<input type="radio"/>
You can use the Translator service to transcribe audible speech into text.	<input type="radio"/>	<input checked="" type="radio"/>

The translator service provides multi-language support for text translation, transliteration, language detection, and dictionaries.

Speech-to-Text, also known as automatic speech recognition (ASR), is a feature of Speech Services that provides transcription.

Reference:

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

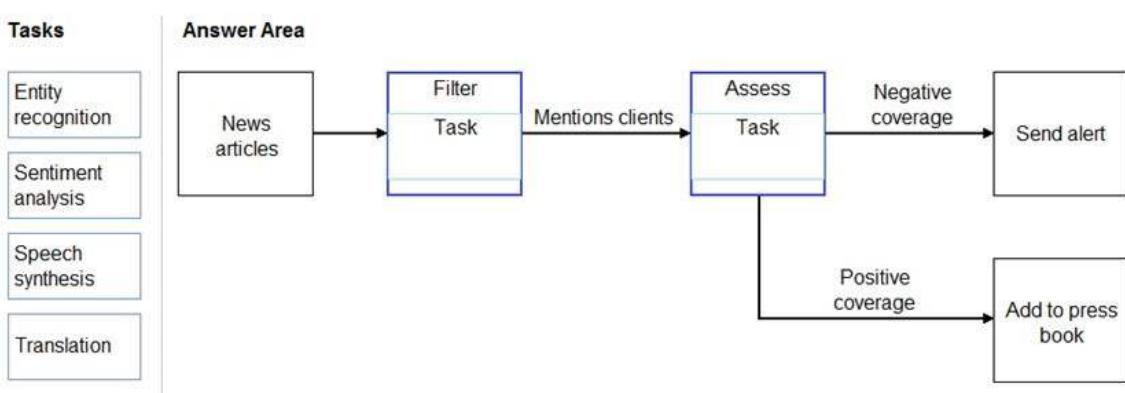
## DRAG DROP -

You need to scan the news for articles about your customers and alert employees when there is a negative article. Positive articles must be added to a press book.

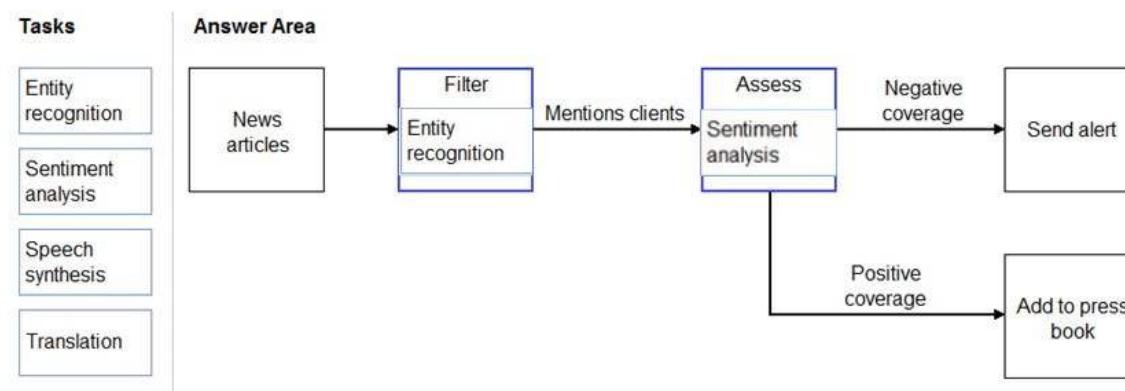
Which natural language processing tasks should you use to complete the process? To answer, drag the appropriate tasks to the correct locations. Each task may be used once, more than once, or not at all. You may need to drag the split bar between panes or scroll to view content.

NOTE: Each correct selection is worth one point.

Select and Place:



## Correct Answer:



## 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>

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 **Most Voted**

**Correct Answer:** D

*Community vote distribution*

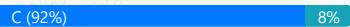
D (100%)

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 **Most Voted**
- D. translating a set of documents from English to German

**Correct Answer:** C

*Community vote distribution*



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 **Most Voted**

B. conversational AI

C. anomaly detection

D. computer vision

**Correct Answer:** A

*Community vote distribution*

A (100%)

**HOTSPOT -**

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

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.

**Answer Area**

Natural language processing can be used to

**Correct Answer:**

- 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 (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>

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

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

**Correct Answer:** D

*Community vote distribution*

D (100%)

You are developing a chatbot solution in Azure.  
Which service should you use to determine a user's intent?

- A. Translator
- B. QnA Maker
- C. Speech
- D. Language Understanding (LUIS) **Most Voted**

**Correct Answer:** D

*Community vote distribution*

D (100%)

You need to make the written press releases of your company available in a range of languages.  
Which service should you use?

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

**Correct Answer:** A

*Community vote distribution*

A (100%)

**HOTSPOT -**

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

NOTE: Each correct selection is worth one point.

Hot Area:

**Answer Area**

Statements	Yes	No
The Text Analytics service can identify in which language text is written.	<input type="radio"/>	<input type="radio"/>
The Text Analytics service can detect handwritten signatures in a document.	<input type="radio"/>	<input type="radio"/>
The Text Analytics service can identify companies and organizations mentioned in a document.	<input type="radio"/>	<input type="radio"/>

**Answer Area****Correct Answer:**

Statements	Yes	No
The Text Analytics service can identify in which language text is written.	<input checked="" type="radio"/>	<input type="radio"/>
The Text Analytics service can detect handwritten signatures in a document.	<input type="radio"/>	<input checked="" type="radio"/>
The Text Analytics service can identify companies and organizations mentioned in a document.	<input checked="" type="radio"/>	<input type="radio"/>

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

Box 1: Yes -

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

Box 2: No -

Box 3: Yes -

Named Entity Recognition: Identify and categorize entities in your text as people, places, organizations, date/time, quantities, percentages, currencies, and more.

Well-known entities are also recognized and linked to more information on the web.

Reference:

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

## 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:

Workloads 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 Converts text to a different language
Sentiment analysis	
Translation	
Speech recognition and speech synthesis	

## Correct Answer:

Workloads Types	Answer Area
Entity recognition	Entity recognition Extracts persons, locations, and organizations from the text
Key phrase extraction	Sentiment analysis Evaluates text along a positive-negative scale
Language modeling	Translation Converts text to a different language
Sentiment analysis	
Translation	
Speech recognition and speech synthesis	

## 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://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>



HOTSPOT -

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

NOTE: Each correct selection is worth one point.

Hot Area:

**Answer Area**

Statements	Yes	No
Monitoring online service reviews for profanities is an example of natural language processing.	<input type="radio"/>	<input type="radio"/>
Identifying brand logos in an image is an example of natural languages processing.	<input type="radio"/>	<input type="radio"/>
Monitoring public news sites for negative mentions of a product is an example of natural language processing.	<input type="radio"/>	<input type="radio"/>

**Correct Answer:**

**Answer Area**

Statements	Yes	No
Monitoring online service reviews for profanities is an example of natural language processing.	<input checked="" type="radio"/>	<input type="radio"/>
Identifying brand logos in an image is an example of natural languages processing.	<input type="radio"/>	<input checked="" type="radio"/>
Monitoring public news sites for negative mentions of a product is an example of natural language processing.	<input checked="" type="radio"/>	<input type="radio"/>

Box 1: Yes -

Content Moderator is part of Microsoft Cognitive Services allowing businesses to use machine assisted moderation of text, images, and videos that augment human review.

The text moderation capability now includes a new machine-learning based text classification feature which uses a trained model to identify possible abusive, derogatory or discriminatory language such as slang, abbreviated words, offensive, and intentionally misspelled words for review.

Box 2: No -

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

Box 3: Yes -

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

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

Reference:

<https://azure.microsoft.com/es-es/blog/machine-assisted-text-classification-on-content-moderator-public-preview/>

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

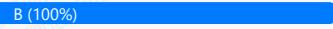
You are developing a natural language processing solution in Azure. The solution will analyze customer reviews and determine how positive or negative each review is.

This is an example of which type of natural language processing workload?

- A. language detection
- B. sentiment analysis **Most Voted**
- C. key phrase extraction
- D. entity recognition

**Correct Answer:** B

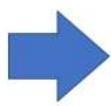
*Community vote distribution*



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

You receive the output shown in the following exhibit.

For weeks now, students and teachers have been settling into the uncharted routine of distance learning. Today I want to thank all of the educators who are connecting classrooms and classmates together in the sudden shift to remote learning. This change requires everyone working together and is unlike anything we've seen in the modern history of education. We've seen countries, school districts and universities move rapidly into remote learning environments with Microsoft Teams being used in 175 countries by 183,000 institutions.



now [DateTime]  
students [PersonType]  
teachers [PersonType]  
distance learning [Skill]  
Today [DateTime-Date]  
educators [PersonType]  
classrooms [Location]  
classmates [PersonType]  
remote learning [Skill]  
history [Skill]  
education [Skill]  
remote learning [Skill]  
Microsoft [Organization]  
175 [Quantity-Number]  
183,000 [Quantity-Number]

Which type of natural languages processing was performed?

- A. entity recognition **Most Voted**
- B. key phrase extraction
- C. sentiment analysis
- D. translation

**Correct Answer:** A

Community vote distribution

A (100%)

## 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**

Entity recognition

Key phrase extraction

Language detection

Sentiment analysis

**Answer Area**

API Feature

Understand how upset a customer is based on the text contained in the support ticket.

API Feature

Summarize important information from the support ticket.

API Feature

Extract key dates from the support ticket.

**Correct Answer:****API Features**

Entity recognition

Key phrase extraction

Language detection

Sentiment analysis

**Answer Area**

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.

Entity recognition

Extract key dates from the support ticket.

## Box1: Sentiment analysis -

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

## Box 2: Broad entity extraction -

Broad entity extraction: Identify important concepts in text, including key

Key phrase extraction/ Broad entity extraction: Identify important concepts in text, including key phrases and named entities such as people, places, and organizations.

## Box 3: Entity Recognition -

Named Entity Recognition: Identify and categorize entities in your text as people, places, organizations, date/time, quantities, percentages, currencies, and more.

Well-known entities are also recognized and linked to more information on the web.

Reference:

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

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

You are authoring a Language Understanding (LUIS) application to support a music festival.

You want users to be able to ask questions about scheduled shows, such as: 'Which act is playing on the main stage?'

The question 'Which act is playing on the main stage?' is an example of which type of element?

- A. an intent
- B. an utterance **Most Voted**
- C. a domain
- D. an entity

**Correct Answer:** B

*Community vote distribution*



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

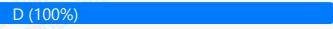
You need to add professional greetings and other responses to make the bot more user friendly.

What should you do?

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

**Correct Answer:** D

*Community vote distribution*



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

- A product troubleshooting guide in a Microsoft Word document
- A frequently asked questions (FAQ) list on a webpage

Which service should you use to process the documents?

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

**Correct Answer:** D

*Community vote distribution*

 D (100%)

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 **Most Voted**
- C. Create a prebuilt task entity
- D. Create a new model

**Correct Answer:** B

*Community vote distribution*



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

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

**Correct Answer:** BC

*Community vote distribution*

BC (100%)

You have an AI 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. key phrase extraction
- C. speech-to-text **Most Voted**
- D. language modeling **Most Voted**
- E. translation

**Correct Answer:** CD

*Community vote distribution*



**HOTSPOT -**

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

NOTE: Each correct selection is worth one point.

Hot Area:

**Answer Area**

Statements	Yes	No
The Language service can identify in which language text is written.	<input type="radio"/>	<input type="radio"/>
The Language service can detect handwritten signatures in a document.	<input type="radio"/>	<input type="radio"/>
The Language service can identify companies and organizations mentioned in a document.	<input type="radio"/>	<input type="radio"/>

**Correct Answer:****Answer Area**

Statements	Yes	No
The Language service can identify in which language text is written.	<input checked="" type="radio"/>	<input type="radio"/>
The Language service can detect handwritten signatures in a document.	<input type="radio"/>	<input checked="" type="radio"/>
The Language service can identify companies and organizations mentioned in a document.	<input checked="" type="radio"/>	<input type="radio"/>

Box 1: Yes -

Azure Cognitive Service for Language provides features including:

\* Language detection: This pre-configured feature evaluates text, and determines the language it was written in. It returns a language identifier and a score that indicates the strength of the analysis.

Box 2: No -

Handwritten detection is part of OCR (Optical Character Recognition).

Box 3: Yes -

Azure Cognitive Service for Language provides features including:

\* Named Entity Recognition (NER): This pre-configured feature identifies entities in text across several pre-defined categories.

Note: Named entity recognition is a natural language processing technique that can automatically scan entire articles and pull out some fundamental entities in a text and classify them into predefined categories. Entities may be,

Organizations,

Quantities,

Monetary values,

Percentages, and more.

People's names -

Company names -

Geographic locations (Both physical and political)

Product names -

Dates and times -

Amounts of money -

Names of events -

Reference:

<https://docs.microsoft.com/en-us/azure/cognitive-services/language-service/overview>



**DRAG DROP -**

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

Match the Azure Cognitive Services to the appropriate tasks.

To answer, drag the appropriate service from the column on the left to its description on the right. Each service may be used once, more than once, or not at all.

NOTE: Each correct selection is worth one point.

Select and Place:

Services	Answer Area	
Speech		Convert a user's speech to text
Language service		Identify a user's intent
Translator Text		Provide a spoken response to the user

**Correct Answer:**

Services	Answer Area	
Speech	Speech	Convert a user's speech to text
Language service	Language service	Identify a user's intent
Translator Text	Speech	Provide a spoken response to the user

**Box 1: Speech -**

The Speech service provides speech-to-text and text-to-speech capabilities with an Azure Speech resource. You can transcribe speech to text with high accuracy, produce natural-sounding text-to-speech voices, translate spoken audio, and use speaker recognition during conversations.

**Box 2: Language service -**

Build applications with conversational language understanding, a Cognitive Service for Language feature that understands natural language to interpret user goals and extracts key information from conversational phrases. Create multilingual, customizable intent classification and entity extraction models for your domain-specific keywords or phrases across 96 languages.

**Box 3: Speech -**

Incorrect:

Not Translator text: Text translation is a cloud-based REST API feature of the Translator service that uses neural machine translation technology to enable quick and accurate source-to-target text translation in real time across all supported languages.

Reference:

<https://docs.microsoft.com/en-us/azure/cognitive-services/speech-service/overview> <https://azure.microsoft.com/en-us/services/cognitive-services/conversational-language-understanding/> <https://docs.microsoft.com/en-us/azure/cognitive-services/translator/text-translation-overview>

You need to make the written press releases of your company available in a range of languages.  
Which service should you use?

- A. Speech
- B. Language
- C. Translator **Most Voted**
- D. Personalizer

**Correct Answer:** C

*Community vote distribution*

 C (100%)

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. anomaly detection
- B. natural language processing **Most Voted**
- C. computer vision
- D. knowledge mining

**Correct Answer:** B

*Community vote distribution*



You need to build an app that will read recipe instructions aloud to support users who have reduced vision. Which version service should you use?

- A. Language service
- B. Translator
- C. Speech **Most Voted**
- D. Personalizer

**Correct Answer:** C

*Community vote distribution*

C (100%)

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 **Most Voted**

**Correct Answer:** D

*Community vote distribution*



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 **Most Voted**
- C. Translator
- D. Form Recognizer

**Correct Answer:** B

*Community vote distribution*



**HOTSPOT -**

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

NOTE: Each correct selection is worth one point.

Hot Area:

**Answer Area**

Statements	Yes	No
A bot that responds to queries by internal users is an example of a conversational AI workload.	<input type="radio"/>	<input type="radio"/>
An application that displays images relating to an entered search term is an example of a conversational AI workload.	<input type="radio"/>	<input type="radio"/>
A web form used to submit a request to reset a password is an example of a conversational AI workload.	<input type="radio"/>	<input type="radio"/>

**Correct Answer:****Answer Area**

Statements	Yes	No
A bot that responds to queries by internal users is an example of a conversational AI workload.	<input checked="" type="radio"/>	<input type="radio"/>
An application that displays images relating to an entered search term is an example of a conversational AI workload.	<input type="radio"/>	<input checked="" type="radio"/>
A web form used to submit a request to reset a password is an example of a conversational AI workload.	<input type="radio"/>	<input checked="" type="radio"/>

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

What are three ways to create question and answer text by using QnA Maker? Each correct answer presents a complete solution.

NOTE: Each correct selection is worth one point.

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

**Correct Answer:** ACE

*Community vote distribution*

ACE (100%)

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

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

Which service should you use?

A. QnA Maker **Most Voted**

B. Text Analytics

C. Computer Vision

D. Language Understanding (LUIS)

**Correct Answer:** A

*Community vote distribution*

A (100%)

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 **Most Voted**

C. Azure Bot Service **Most Voted**

D. Translator

**Correct Answer:** BC

*Community vote distribution*

BC (100%)

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.

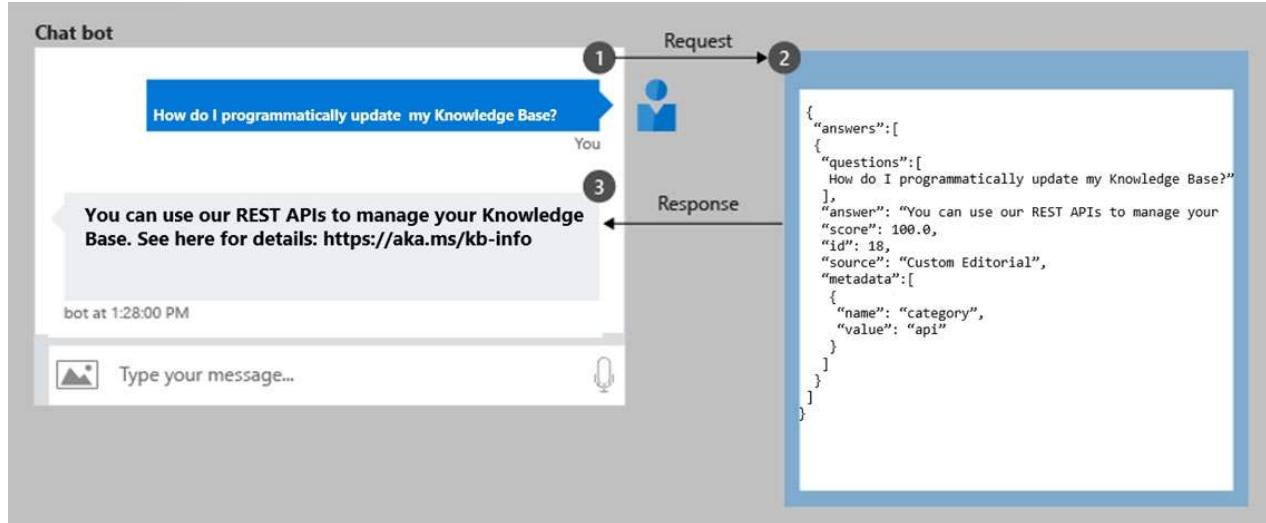
- A. a smart device in the home that responds to questions such as "What will the weather be like today?" **Most Voted**
- B. a website that uses a knowledge base to interactively respond to users' questions **Most Voted**
- C. assembly line machinery that autonomously inserts headlamps into cars
- D.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

**Correct Answer:** AB

*Community vote distribution*

AB (100%)

You have the process shown in the following exhibit.



Which type of AI solution is shown in the diagram?

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

**Correct Answer:** B

Community vote distribution

B (100%)

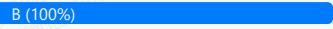
You need to develop a web-based AI solution for a customer support system. Users must be able to interact with a web app that will guide them to the best resource or answer.

Which service should you use?

- A. Custom Vision
- B. QnA Maker Most Voted**
- C. Translator Text
- D. Face

**Correct Answer:** B

*Community vote distribution*



Which AI service should you use to create a bot from a frequently asked questions (FAQ) document?

- A. QnA Maker **Most Voted**
- B. Language Understanding (LUIS)
- C. Text Analytics
- D. Speech

**Correct Answer:** A

*Community vote distribution*

A (100%)

HOTSPOT -

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

Hot 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.  
conversational AI.  
forecasting.

#### Answer Area

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

**Correct Answer:**

anomaly detection.  
computer vision.  
**conversational AI.**  
forecasting.

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>

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.

**Most Voted**

**Correct Answer:** D

*Community vote distribution*



**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 QnA Maker to query an Azure SQL database.

You should use QnA Maker when you want a knowledge base to provide the same answer to different users who submit similar questions.

The QnA Maker service can determine the intent of a user utterance.

**Answer Area**

Statements	Yes	No
------------	-----	----

You can use QnA Maker to query an Azure SQL database.

**Correct Answer:**

You should use QnA Maker when you want a knowledge base to provide the same answer to different users who submit similar questions.

The QnA Maker service can determine the intent of a user utterance.

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>

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 Cortana.	<input type="radio"/>	<input type="radio"/>
You can communicate with a bot by using Microsoft Teams.	<input type="radio"/>	<input type="radio"/>
You can communicate with a bot by using a webchat interface.	<input type="radio"/>	<input type="radio"/>

Correct Answer:

### Answer Area

Statements	Yes	No
You can communicate with a bot by using Cortana.	<input type="radio"/>	<input checked="" type="radio"/>
You can communicate with a bot by using Microsoft Teams.	<input checked="" type="radio"/>	<input type="radio"/>
You can communicate with a bot by using a webchat interface.	<input checked="" type="radio"/>	<input type="radio"/>

**HOTSPOT -**

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

NOTE: Each correct selection is worth one point.

Hot Area:

**Answer Area**

Statements	Yes	No
A restaurant can use a chatbot to empower customers to make reservations by using a website or an app.	<input type="radio"/>	<input type="radio"/>
A restaurant can use a chatbot to answer inquiries about business hours from a webpage.	<input type="radio"/>	<input type="radio"/>
A restaurant can use a chatbot to automate responses to customer reviews on an external website.	<input type="radio"/>	<input type="radio"/>

Correct Answer:

**Answer Area**

Statements	Yes	No
A restaurant can use a chatbot to empower customers to make reservations by using a website or an app.	<input checked="" type="checkbox"/>	<input type="radio"/>
A restaurant can use a chatbot to answer inquiries about business hours from a webpage.	<input checked="" type="checkbox"/>	<input type="radio"/>
A restaurant can use a chatbot to automate responses to customer reviews on an external website.	<input type="radio"/>	<input checked="" type="checkbox"/>

Which two scenarios are examples of a conversational AI workload? Each correct answer presents a complete solution.

NOTE: Each correct selection is worth one point.

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

**Correct Answer:** BC

*Community vote distribution*

BC (100%)

**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
Azure Bot Service and Azure Cognitive Services can be integrated.	<input type="radio"/>	<input type="radio"/>
Azure Bot Service engages with customers in a conversational manner.	<input type="radio"/>	<input type="radio"/>
Azure Bot Service can import frequently asked questions (FAQ) to question and answer sets.	<input type="radio"/>	<input type="radio"/>

**Answer Area**

Statements	Yes	No
Azure Bot Service and Azure Cognitive Services can be integrated.	<input type="radio"/>	<input type="radio"/>
Azure Bot Service engages with customers in a conversational manner.	<input type="radio"/>	<input type="radio"/>
Azure Bot Service can import frequently asked questions (FAQ) to question and answer sets.	<input type="radio"/>	<input type="radio"/>

Box 1: Yes -

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

Box 2: Yes -

Azure bot service engages with customers in a conversational manner.

Box 3: No -

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

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

Reference:

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

**HOTSPOT -**

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

NOTE: Each correct selection is worth one point.

Hot Area:

**Answer Area**

Statements	Yes	No
A webchat bot can interact with users visiting a website	<input type="radio"/>	<input type="radio"/>
Automatically generating captions for pre-recorded videos is an example of conversational AI	<input type="radio"/>	<input type="radio"/>
A smart device in the home that responds to questions such as "What will the weather like today?" is an example of conversational AI	<input type="radio"/>	<input type="radio"/>

**Answer Area**

Statements	Yes	No
A webchat bot can interact with users visiting a website	<input checked="" type="radio"/>	<input type="radio"/>
Correct Answer: Automatically generating captions for pre-recorded videos is an example of conversational AI	<input type="radio"/>	<input checked="" type="radio"/>
A smart device in the home that responds to questions such as "What will the weather like today?" is an example of conversational AI	<input checked="" type="radio"/>	<input type="radio"/>

Reference:

<https://docs.microsoft.com/en-us/azure/architecture/reference-architectures/ai/conversational-bot>

<https://docs.microsoft.com/en-us/azure/bot-service/bot-builder-webchat-overview?view=azure-bot-service-4.0>

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. **Most Voted**
- D. Provide customers with return materials authorization (RMA) numbers.

**Correct Answer:** C

*Community vote distribution*

 C (100%)

**HOTSPOT -**

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

NOTE: Each correct selection is worth one point.

Hot Area:

**Answer Area**

Statements	Yes	No
A restaurant can use a chatbot to answer queries through Cortana.	<input type="radio"/>	<input type="radio"/>
A restaurant can use a chatbot to answer inquiries about business hours from a webpage.	<input type="radio"/>	<input type="radio"/>
A restaurant can use a chatbot to automate responses to customer reviews on an external website.	<input type="radio"/>	<input type="radio"/>

**Correct Answer:**

Statements	Yes	No
A restaurant can use a chatbot to answer queries through Cortana.	<input checked="" type="checkbox"/>	<input type="radio"/>
A restaurant can use a chatbot to answer inquiries about business hours from a webpage.	<input checked="" type="checkbox"/>	<input type="radio"/>
A restaurant can use a chatbot to automate responses to customer reviews on an external website.	<input type="radio"/>	<input checked="" type="checkbox"/>

**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**

Chatbots can only be built by using custom code.

**Yes****No**

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

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

**Correct Answer:****Answer Area****Statements**

Chatbots can only be built by using custom code.

**Yes****No**

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

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

Box 1: No -

Build conversational experiences with Power Virtual Agents and Azure Bot Service

Azure Bot Service provides an integrated development environment for bot building. Its integration with Power Virtual Agents, a fully hosted low-code platform, enables developers of all technical abilities build conversational AI bots—no code needed.

Box 2: Yes -

Box 3: Yes -

You can configure your bot to communicate with people via Microsoft Teams.

Reference:

<https://azure.microsoft.com/en-us/services/bot-services/#overview> <https://docs.microsoft.com/en-us/azure/bot-service/channel-connect-teams>

HOTSPOT -

Select the answer that correctly completes the sentence.

Hot Area:

**Answer Area**

Computer vision capabilities can be deployed to

- develop a text-based chatbot for a website.
- identify anomalous customer behavior on an online store.
- integrate a facial recognition feature into an app.
- suggest automated responses to incoming email.

**Correct Answer:**

**Answer Area**

Computer vision capabilities can be deployed to

- develop a text-based chatbot for a website.
- identify anomalous customer behavior on an online store.
- integrate a facial recognition feature into an app.
- suggest automated responses to incoming email.

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.

\* Optical Character Recognition (OCR)

\* Spatial Analysis

\* Image Analysis

The Image Analysis service extracts many visual features from images, such as objects, faces, adult content, and auto-generated text descriptions. Follow the

Image Analysis quickstart to get started.

Reference:

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

You have an Azure Machine Learning pipeline that contains a Split Data module. The Split Data module outputs to a Train Model module and a Score Model module. What is the function of the Split Data module?

- A. scaling numeric variables so that they are within a consistent numeric range
- B. creating training and validation datasets **Most Voted**
- C. diverting records that have missing data
- D. selecting columns that must be included in the model

**Correct Answer:** B

*Community vote distribution*



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 **Most Voted**
- C. AI systems must keep personal details public
- D. AI systems must protect the interests of the company

**Correct Answer:** B

*Community vote distribution*

B (100%)

**DRAG DROP -**

Match the types of natural language 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 match is worth one point.

Select and Place:

**Workload types**

- Entity recognition
- Key phrase extraction
- Language modeling
- Sentiment analysis
- Speech recognition and speech synthesis
- Translation

**Answer Area**


- Extracts persons, locations, and organizations from the text.
- Evaluates text along a positive-negative scale.
- Converts text to a different language.

**Correct Answer:****Workload types**

- Entity recognition
- Key phrase extraction
- Language modeling
- Sentiment analysis
- Speech recognition and speech synthesis
- Translation

**Answer Area**

Entity recognition
Sentiment analysis
Translation

- Extracts persons, locations, and organizations from the text.
- Evaluates text along a positive-negative scale.
- Converts text to a different language.

You need to reduce the load on telephone operators by implementing a chatbot to answer simple questions with predefined answers.

Which two AI services should you use to achieve the goal? Each correct answers presents part of the solution.

NOTE: Each correct selection is worth one point.

A. Azure Machine Learning

B. Azure Bot Service **Most Voted**

C. Language Service **Most Voted**

D. Translator

**Correct Answer:** BC

*Community vote distribution*

BC (100%)

## DRAG DROP

Match the principles of 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. You may need to drag the split bar between panes or scroll to view content.

NOTE: Each correct selection is worth one point.

Principles	Answer Area
Fairness	
Inclusiveness	
Privacy and security	
Reliability and safety	
...	
...	
...	
...	

Answer Area
<b>Correct Answer:</b>
Reliability and safety    AI systems must consistently operate as intended, even under unexpected conditions.
Privacy and security    AI systems must protect and secure personal and businesses information.

During the process of Machine Learning, when should you review evaluation metrics.

- A. Before you train a model.
- B. After you clean the data.
- C. Before you choose the type of model.
- D. After you test a model on the validation data. **Most Voted**

**Correct Answer:** D

*Community vote distribution*

D (100%)

You have a natural language processing (NLP) model that was created by using data obtained without permission.

Which Microsoft principle for responsible AI does this breach?

A. reliability and safety

B. privacy and security **Most Voted**

C. inclusiveness

D. transparency

**Correct Answer:** B

*Community vote distribution*

 B (100%)

**HOTSPOT**

Select the answer that correctly completes the sentence.

**Answer Area**

Ensuring an AI system does not provide a prediction when important fields contain unusual or missing values is  principle for responsible AI.

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

**Answer Area**

Ensuring an AI system does not provide a prediction when important fields contain unusual or missing values is  principle for responsible AI.

Correct Answer:

- an inclusiveness
- a privacy and security
- a reliability and safety**
- a transparency

---

DRAG DROP -

Match the services to the appropriate descriptions.

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

NOTE: Each correct selection is worth one point.

Services	Answer Area
Azure Storage	
Azure Bot Service	
Language Service	
Speech	

Enables the use of natural language to query a knowledge base.

Enables the real-time transcription of speech-to-text.

Correct Answer:

Services	Answer Area
Azure Storage	
Azure Bot Service	
Language Service	Enables the use of natural language to query a knowledge base.
Speech	Enables the real-time transcription of speech-to-text.

Which machine learning technique can be used for anomaly detection?

- A. A machine learning technique that classifies objects based on user supplied images.
- B. A machine learning technique that understands written and spoken language.
- C. A machine learning technique that classifies images based on their contents.
- D. A machine learning technique that analyzes data over time and identifies unusual changes. **Most Voted**

**Correct Answer:** D

*Community vote distribution*

D (100%)

You have an AI-based loan approval system.

During testing, you discover that the system has a gender bias.

Which responsible AI principle does this violate?

- A. accountability
- B. reliability and safety
- C. transparency
- D. fairness **Most Voted**

**Correct Answer:** D

*Community vote distribution*

D (100%)

You are developing a system to predict the prices of insurance for drivers in the United Kingdom.

You need to minimize bias in the system.

What should you do?

A. Remove information about protected characteristics from the data before sampling.

B. Take a training sample that is representative of the population in the United Kingdom. **Most Voted**

C. Create a training dataset that uses data from global insurers.

D. Take a completely random training sample.

**Correct Answer:** B

*Community vote distribution*

B (100%)

## HOTSPOT

Select the answer that correctly completes the sentence.

## Answer Area

Azure Machine Learning designer lets you create machine learning models by

- adding and connecting modules on a visual canvas.
- automatically performing common data preparation tasks.
- automatically selecting an algorithm to build the most accurate model.
- using a code-first notebook experience.

## Answer Area

## Correct Answer:

Azure Machine Learning designer lets you create machine learning models by

- adding and connecting modules on a visual canvas.
- automatically performing common data preparation tasks.
- automatically selecting an algorithm to build the most accurate model.
- using a code-first notebook experience.

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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. **Most Voted**
- B. Create a clustering model.
- C. Split the data into training and testing datasets.
- D. Create a classification model.

**Correct Answer:** A

*Community vote distribution*



You use Azure Machine Learning designer to build a model pipeline.

What should you create before you can run the pipeline?

- A. a registered model
- B. a compute resource **Most Voted**
- C. a Jupyter notebook

**Correct Answer:** B

*Community vote distribution*



## DRAG DROP

Match the tool to the Azure Machine Learning task.

To answer, drag the appropriate tool from the column on the left to its tasks on the right. Each tool may be used once, more than once, or not at all.

NOTE: Each correct selection is worth one point.

Tools	Answer Area
Automated machine learning (automated ML)	
The Azure portal	
Machine Learning designer	
...	...

Create a Machine Learning workspace

Use a drag-and-drop interface used to train and deploy models

Use a wizard to select configurations for a machine learning run

**Correct Answer:**

Answer Area
The Azure portal
Machine Learning designer
Automated machine learning (automated ML)

Create a Machine Learning workspace

Use a drag-and-drop interface used to train and deploy models

Use a wizard to select configurations for a machine learning run

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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 AI solution should you use?

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

**Correct Answer:** C

*Community vote distribution*



## 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.

Workload Types	Answer Area
Anomaly detection	Workload Type
Computer vision	Workload Type
Machine Learning (Clustering)	Workload Type
Natural language processing	Workload Type

Correct Answer:	Answer Area
	Computer vision Identify handwritten letters.
	Natural language processing Predict the sentiment of a social media post.
	Anomaly detection Identify an unusual credit card payment.
	Machine Learning (Clustering) Group animals based on multiple measurements.

Predicting how many vehicles will travel across a bridge on a give day is an example of \_\_\_\_\_.  
Select the answer that correctly completes the sentence.

A. regression **Most Voted**

B. translation

C. classification

D. clustering

**Correct Answer:** A

*Community vote distribution*

A (100%)

In a machine learning model, the data that is used as inputs are called \_\_\_\_\_.

Select the answer that correctly completes the sentence.

- A. dataset
- B. labels
- C. variables **Most Voted**

**Correct Answer:** C

*Community vote distribution*



HOTSPOT -

Select the answer that correctly completes the sentence.

### Answer Area

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

- clustering.
- regression.
- classification.
- regularization.

### Answer Area

Correct Answer:

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

- clustering.
- regression.
- classification.
- regularization.

---

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.

**Actions**

Train the model.

Split the data randomly into training data and validation data.

Evaluate the model against the original dataset.

Evaluate the model against the validation dataset.

Ingest and prepare a dataset.

**Answer area****Correct Answer:****Actions**

Evaluate the model against the original dataset.

**Answer area**

Ingest and prepare a dataset.

Split the data randomly into training data and validation data.

Train the model.



**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**

<b>Statements</b>	<b>Yes</b>	<b>No</b>
Organizing documents into groups based on different usage statistics is an example of clustering.	<input type="radio"/>	<input type="radio"/>
Grouping similar patients based on symptoms and diagnostic test results is an example of clustering.	<input type="radio"/>	<input type="radio"/>
Predicting whether a person will develop mild, moderate, or severe allergy symptoms based on pollen count is an example of clustering.	<input type="radio"/>	<input type="radio"/>

Correct Answer:

**Answer Area**

<b>Statements</b>	<b>Yes</b>	<b>No</b>
Organizing documents into groups based on different usage statistics is an example of clustering.	<input checked="" type="checkbox"/>	<input type="radio"/>
Grouping similar patients based on symptoms and diagnostic test results is an example of clustering.	<input checked="" type="checkbox"/>	<input type="radio"/>
Predicting whether a person will develop mild, moderate, or severe allergy symptoms based on pollen count is an example of clustering.	<input type="radio"/>	<input checked="" type="checkbox"/>

## HOTSPOT

Select the answer that correctly completes the sentence.

**Answer Area**

When building a regression model, labels must have a data type of

- boolean.
- datetime.
- numeric.
- text.

**Answer Area**

**Correct Answer:**

When building a regression model, labels must have a data type of

- boolean.
- datetime.
- numeric.
- text.

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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 training and a dataset for testing. Use the testing dataset for evaluation.

**Most Voted**

- B. Use the original dataset for training and evaluation.

- C. Split the original dataset into a dataset for features and a dataset for labels. Use the features dataset for evaluation.

- D. Split the original dataset into a dataset for training and a dataset for testing. Use the training dataset for evaluation.

**Correct Answer:** A

*Community vote distribution*



You have a dataset that contains the columns shown in the following table.

Name	Type
ColumnA	Integer
ColumnB	Numeric
ColumnC	Numeric
ColumnD	Numeric
ColumnE	Numeric

You have a machine learning model that predicts the value of ColumnE based on the other numeric columns.

Which type of model is this?

- A. analysis
- B. clustering
- C. regression **Most Voted**

**Correct Answer:** C

*Community vote distribution*

C (100%)

You need to track multiple versions of a model that was trained by using Azure Machine Learning.

What should you do?

- A. Explain the model.
- B. Register the model. **Most Voted**
- C. Register the training data.
- D. Provision an inference cluster.

**Correct Answer:** B

*Community vote distribution*



You need to identify groups of rows with similar numeric values in a dataset.

Which type of machine learning should you use?

A. clustering **Most Voted**

B. regression

C. classification

**Correct Answer:** A

*Community vote distribution*

A (100%)

HOTSPOT -

Select the answer that correctly completes the sentence.

### Answer Area

A banking system that predicts whether a loan will be repaid  
is an example of the  type of machine learning.

- clustering
- regression
- classification

### Answer Area

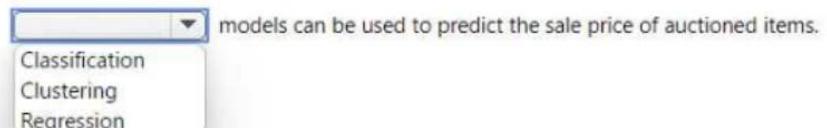
A banking system that predicts whether a loan will be repaid  
Correct Answer: is an example of the  type of machine learning.

- clustering
- regression
- classification

## HOTSPOT

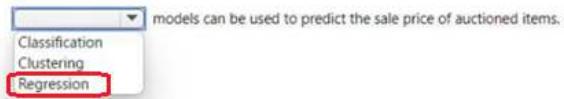
Select the answer that correctly completes the sentence.

## Answer Area



## Answer Area

## Correct Answer:



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A historian can use \_\_\_\_\_ to digitize newspaper articles.

Select the answer that correctly completes the sentence.

- A. Object detection
- B. Facial recognition
- C. Image classification
- D. Optical character recognition (OCR) **Most Voted**

**Correct Answer:** D

*Community vote distribution*



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
Object detection can identify the location of a damaged product in an image.	<input type="radio"/>	<input type="radio"/>
Object detection can identify multiple instances of a damaged product in an image.	<input type="radio"/>	<input type="radio"/>
Object detection can identify multiple types of damaged products in an image.	<input type="radio"/>	<input type="radio"/>

**Correct Answer:**

**Answer Area**

Statements	Yes	No
Object detection can identify the location of a damaged product in an image.	<input checked="" type="checkbox"/>	<input type="radio"/>
Object detection can identify multiple instances of a damaged product in an image.	<input checked="" type="checkbox"/>	<input type="radio"/>
Object detection can identify multiple types of damaged products in an image.	<input checked="" type="checkbox"/>	<input type="radio"/>

You need to create a model that labels a collection of your personal digital photographs.

Which Azure Cognitive Services service should you use?

A. Form Recognizer

B. Custom Vision **Most Voted**

C. Language

D. Computer Vision

**Correct Answer:** B

*Community vote distribution*

 B (97%) 3%

HOTSPOT

Select the answer that correctly completes the sentence.

### Answer Area

▼

- Object detection
- Image description
- Image classification
- Optical character recognition (OCR)

is used to identify multiple types of items in one image.

Correct Answer:

### Answer Area

▼

- Object detection
- Image description
- Image classification
- Optical character recognition (OCR)

is used to identify multiple types of items in one image.

Object detection

Image description

Image classification

Optical character recognition (OCR)

HOTSPOT

Select the answer that correctly completes the sentence.

### Answer Area

Identifying whether a kiosk user is annoyed by monitoring a video feed from the kiosk is an example of

- face detection.
- facial analysis.
- facial recognition.
- optical character recognition (OCR).

Correct Answer:

### Answer Area

Identifying whether a kiosk user is annoyed by monitoring a video feed from the kiosk is an example of

- face detection.
- facial analysis.**
- facial recognition.
- optical character recognition (OCR).

## DRAG DROP

Match the Azure Cognitive Services 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 be used once, more than once, or not at all.

NOTE: Each correct selection is worth one point.

**Services**

Custom Vision

Face

Form Recognizer

**Answer Area**

Identify objects in an image.

Automatically import data from an invoice to a database.

Identify people in an image.

**Correct Answer:** **Answer Area**

Custom Vision

Identify objects in an image.

Form Recognizer

Automatically import data from an invoice to a database.

Face

Identify people in an image.

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HOTSPOT -

Select the answer that correctly completes the sentence.

**Answer Area**

An AI solution that helps photographers take better portrait photographs by providing feedback on exposure, noise, and occlusion is an example of facial

  
analysis.  
detection.  
recognition.

Correct Answer:

**Answer Area**

An AI solution that helps photographers take better portrait photographs by providing feedback on exposure, noise, and occlusion is an example of facial

  
analysis.  
detection.  
recognition.

Your company manufactures widgets.

You have 1,000 digital photos of the widgets.

You need to identify the location of the widgets within the photos.

What should you use?

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

**Correct Answer:** B

*Community vote distribution*



You need to convert handwritten notes into digital text.

Which type of computer vision should you use?

- A. facial detection
- B. optical character recognition (OCR) **Most Voted**
- C. image classification
- D. object detection

**Correct Answer:** B

*Community vote distribution*



## HOTSPOT

Select the answer that correctly completes the sentence.

## Answer Area

is used to identify multiple types of items in one image.

Image classification  
Image description  
**Object detection**  
Optical character recognition (OCR)

## Correct Answer:

**Answer Area**

is used to identify multiple types of items in one image.

Image classification  
Image description  
**Object detection**  
Optical character recognition (OCR)

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) **Most Voted**

**Correct Answer:** D

*Community vote distribution*



## HOTSPOT

Select the answer that correctly completes the sentence.

**Answer Area**

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

- Computer Vision
- Custom Vision
- Form Recognizer
- Azure Video Analyzer for Media

**Correct Answer:**

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

- Computer Vision**
- Custom Vision
- Form Recognizer
- Azure Video Analyzer for Media

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HOTSPOT -

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

**Answer Area**

An AI solution that helps photographers take better portrait photographs by providing feedback on exposure, noise, and occlusion is an example of facial

analysis.  
detection.  
recognition.

**Correct Answer:**

**Answer Area**

An AI solution that helps photographers take better portrait photographs by providing feedback on exposure, noise, and occlusion is an example of facial

analysis.  
detection.  
recognition.

## DRAG DROP

Match the Azure Cognitive Services to the appropriate AI workloads.

To answer, drag the appropriate service from the column on the left to its workload on the right. Each service may be used once, more than once, or not at all.

NOTE: Each correct match is worth one point.

**Services**

Custom Vision

Face

Form Recognized

**Answer Area**

Identify objects in an image.

Automatically import data from an invoice to a database.

Identify people in an image.

**Correct Answer:****Answer Area**

Custom Vision

Identify objects in an image.

Form Recognized

Automatically import data from an invoice to a database.

Face

Identify people in an image.

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You need to implement a pre-built solution that will identify well-known brands in digital photographs.

Which Azure Cognitive Services service should you use?

- A. Custom Vision
- B. Form Recognizer
- C. Face
- D. Computer Vision **Most Voted**

**Correct Answer:** D

*Community vote distribution*



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. **Most Voted**
- D. Classify images

**Correct Answer:** C

*Community vote distribution*



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. Language Service **Most Voted**

B. Azure Bot Service **Most Voted**

C. Form Recognizer

D. Anomaly Detector

**Correct Answer:** AB

*Community vote distribution*

AB (100%)

**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**

- The following service call will accept English text as an input and output Italian and French text.  
`/translate?from=it&to=fr&to=en`
- The following service call will accept English text as an input and output Italian and French text.  
`/translate?from=en&to=fr&to=it`
- The Translator service can be used to translate documents from English to French.

**Yes****No****Correct Answer:****Answer Area****Statements**

- The following service call will accept English text as an input and output Italian and French text.  
`/translate?from=it&to=fr&to=en`
- The following service call will accept English text as an input and output Italian and French text.  
`/translate?from=en&to=fr&to=it`
- The Translator service can be used to translate documents from English to French.

**Yes****No**

An app that analyzes social media posts to identify their tone is an example of which type of natural language processing (NLP) workload?

- A. sentiment analysis **Most Voted**
- B. speech recognition
- C. key phrase extraction
- D. entity recognition

**Correct Answer:** A

*Community vote distribution*

A (100%)

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. named entity recognition **Most Voted**

C. translation

D. language modeling

**Correct Answer:** B

*Community vote distribution*

B (55%)

D (45%)

## 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 be used once, more than once, or not at all.

NOTE: Each correct selection is worth one point.

Azure Cognitive Services	Answer Area
Language service	<input type="text"/>
Speech	<input type="text"/>
Translator	<input type="text"/>
...	Convert spoken requests into text.
...	Identify the intent of a user's requests.
...	Apply intent to entities and utterances.

Answer Area							
<b>Correct Answer:</b>	<table><tr><td>Speech</td><td>Convert spoken requests into text.</td></tr><tr><td>Language service</td><td>Identify the intent of a user's requests.</td></tr><tr><td>Language service</td><td>Apply intent to entities and utterances.</td></tr></table>	Speech	Convert spoken requests into text.	Language service	Identify the intent of a user's requests.	Language service	Apply intent to entities and utterances.
Speech	Convert spoken requests into text.						
Language service	Identify the intent of a user's requests.						
Language service	Apply intent to entities and utterances.						

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
A webchat bot can interact with users visiting a website.	<input type="radio"/>	<input type="radio"/>
Automatically generating captions for pre-recorded videos is an example of natural language processing.	<input type="radio"/>	<input type="radio"/>
A smart device in the home that responds to questions such as "What will the weather be like today?" is an example of natural language processing.	<input type="radio"/>	<input type="radio"/>

**Correct Answer:**

**Answer Area**

Statements	Yes	No
A webchat bot can interact with users visiting a website.	<input checked="" type="checkbox"/>	<input type="radio"/>
Automatically generating captions for pre-recorded videos is an example of natural language processing.	<input type="radio"/>	<input checked="" type="checkbox"/>
A smart device in the home that responds to questions such as "What will the weather be like today?" is an example of natural language processing.	<input type="radio"/>	<input checked="" type="checkbox"/>

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 user's geographical location.

Which type of natural language processing workload should you use?

- A. key phrase extraction
- B. speech recognition
- C. language modeling
- D. translation **Most Voted**

**Correct Answer:** D

*Community vote distribution*

D (100%)

**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**

<b>Statements</b>	<b>Yes</b>	<b>No</b>
Chatbots can support voice input.	<input type="radio"/>	<input type="radio"/>
A separate chatbot is required for each communication channel.	<input type="radio"/>	<input type="radio"/>
Chatbots manage conversation flows by using a combination of natural language and constrained option responses.	<input type="radio"/>	<input type="radio"/>

**Correct Answer:**

**Answer Area**

<b>Statements</b>	<b>Yes</b>	<b>No</b>
Chatbots can support voice input.	<input checked="" type="checkbox"/>	<input type="radio"/>
A separate chatbot is required for each communication channel.	<input type="radio"/>	<input checked="" type="checkbox"/>
Chatbots manage conversation flows by using a combination of natural language and constrained option responses.	<input checked="" type="checkbox"/>	<input type="radio"/>

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
A bot that responds to queries by internal users is an example of a natural language processing workload.	<input type="radio"/>	<input type="radio"/>
A mobile application that displays images relating to an entered search term is an example of a natural language processing workload.	<input type="radio"/>	<input type="radio"/>
A web form used to submit a request to reset a password is an example of a natural language processing workload.	<input type="radio"/>	<input type="radio"/>

Correct Answer:

### Answer Area

Statements	Yes	No
A bot that responds to queries by internal users is an example of a natural language processing workload.	<input checked="" type="radio"/>	<input type="radio"/>
A mobile application that displays images relating to an entered search term is an example of a natural language processing workload.	<input type="radio"/>	<input checked="" type="radio"/>
A web form used to submit a request to reset a password is an example of a natural language processing workload.	<input type="radio"/>	<input checked="" type="radio"/>

You have a solution that analyzes social media posts to extract the mentions of city names and the city names discussed most frequently.

Which type of natural language processing (NLP) workload does the solution use?

- A. speech recognition
- B. sentiment analysis
- C. key phrase extraction
- D. entity recognition **Most Voted**

**Correct Answer:** D

*Community vote distribution*

D (100%)

**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
You can use Language Service's question answering to query an Azure SQL database.	<input type="radio"/>	<input type="radio"/>
You should use Language Service's question answering when you want a knowledge base to provide the same answer to different users who submit similar questions.	<input type="radio"/>	<input type="radio"/>
Language Service's question answering can determine the intent of a user utterance.	<input type="radio"/>	<input type="radio"/>

**Correct Answer:**

Answer Area												
<table><thead><tr><th>Statements</th><th>Yes</th><th>No</th></tr></thead><tbody><tr><td>You can use Language Service's question answering to query an Azure SQL database.</td><td><input type="radio"/></td><td><input checked="" type="radio"/></td></tr><tr><td>You should use Language Service's question answering when you want a knowledge base to provide the same answer to different users who submit similar questions.</td><td><input checked="" type="radio"/></td><td><input type="radio"/></td></tr><tr><td>Language Service's question answering can determine the intent of a user utterance.</td><td><input type="radio"/></td><td><input checked="" type="radio"/></td></tr></tbody></table>	Statements	Yes	No	You can use Language Service's question answering to query an Azure SQL database.	<input type="radio"/>	<input checked="" type="radio"/>	You should use Language Service's question answering when you want a knowledge base to provide the same answer to different users who submit similar questions.	<input checked="" type="radio"/>	<input type="radio"/>	Language Service's question answering can determine the intent of a user utterance.	<input type="radio"/>	<input checked="" type="radio"/>
Statements	Yes	No										
You can use Language Service's question answering to query an Azure SQL database.	<input type="radio"/>	<input checked="" type="radio"/>										
You should use Language Service's question answering when you want a knowledge base to provide the same answer to different users who submit similar questions.	<input checked="" type="radio"/>	<input type="radio"/>										
Language Service's question answering can determine the intent of a user utterance.	<input type="radio"/>	<input checked="" type="radio"/>										

You are developing a solution that uses the Language service.

You need to identify the main talking points in a collection of documents.

Which type of natural language processing should you use?

- A. language detection
- B. sentiment analysis
- C. entity recognition
- D. key phrase extraction **Most Voted**

**Correct Answer:** D

*Community vote distribution*

D (100%)

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DRAG DROP -

You are designing a system that will generate insurance quotes automatically.

Match the Microsoft responsible AI principles to the appropriate requirements.

To answer, drag the appropriate principle 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.

NOTE: Each correct match is worth one point.

**Principles****Answer Area**

A customer's personal information must be visible only to staff who are involved in the decision-making process:

The decision-making process must be recorded so that staff can identify the reasoning behind a particular quote:

The system must be accessible to customers who use screen readers or other assistive technology:

**Correct Answer:****Principles****Answer Area**

A customer's personal information must be visible only to staff who are involved in the decision-making process:

The decision-making process must be recorded so that staff can identify the reasoning behind a particular quote:

The system must be accessible to customers who use screen readers or other assistive technology:

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

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

**Correct Answer:** A

*Community vote distribution*

A (100%)

HOTSPOT

To complete the sentence, select the appropriate option in the 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

### Answer Area

**Correct Answer:** 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

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 is an example of which Microsoft guiding principle for responsible AI?

- A. accountability
- B. fairness
- C. privacy and security
- D. inclusiveness **Most Voted**

**Correct Answer:** D

*Community vote distribution*

D (100%)



## HOTSPOT

You have a large dataset that contains motor vehicle sales data.

You need to train an automated machine learning (automated ML) model to predict vehicle sale values based on the type of vehicle.

Which task should you select? To answer, select the appropriate task in the answer area.

NOTE: Each correct selection is worth one point.

### Answer Area

#### Select task and settings

Select the machine learning task type for the experiment. To fine tune the experiment, choose additional configuration or featurization settings.

##### Classification

To predict one of several categories in the target column, yes/no, blue, red, green.

##### Regression

To predict continuous numeric values.

##### Time series forecasting

To predict values based on time.

##### Natural Language Processing (preview)

Predict based on text-only data types using multi-class or multi-label classification.

##### Computer Vision (preview)

Multi-class or multi-label image classification, object detection, and instance segmentation.

 View additional configuration settings  View featurization settings

### Answer Area

#### Select task and settings

Select the machine learning task type for the experiment. To fine tune the experiment, choose additional configuration or featurization settings.

##### Classification

To predict one of several categories in the target column, yes/no, blue, red, green.

##### Regression

To predict continuous numeric values.

#### Correct Answer:

##### Time series forecasting

To predict values based on time.

##### Natural Language Processing (preview)

Predict based on text-only data types using multi-class or multi-label classification.

##### Computer Vision (preview)

Multi-class or multi-label image classification, object detection, and instance segmentation.

 View additional configuration settings  View featurization settings

HOTSPOT -

Select the answer that correctly completes the sentence.

### Answer Area

When evaluating the performance of a model, the  displays the predicted and actual positives and negatives by using a grid of 0 and 1 values.

AUC metric  
confusion matrix  
ROC curve  
threshold

**Correct Answer:**

### Answer Area

When evaluating the performance of a model, the  displays the predicted and actual positives and negatives by using a grid of 0 and 1 values.

AUC metric  
**confusion matrix**  
ROC curve  
threshold

You need to convert receipts into transactions in a spreadsheet. The spreadsheet must include the date of the transaction, the merchant, the total spent, and any taxes paid.

Which Azure AI service should you use?

- A. Custom Vision
- B. Form Recognizer**
- C. Face
- D. Language

**Correct Answer:** B

*Community vote distribution*

 B (100%)

HOTSPOT

Select the answer that correctly completes the sentence.

### Answer Area

Predicting how many vehicles will travel across a bridge on a given day is an example of

A dropdown menu containing three items: "classification", "clustering", and "regression". The "regression" option is highlighted with a black border.

- classification
- clustering
- regression

### Answer Area

**Correct Answer:** Predicting how many vehicles will travel across a bridge on a given day is an example of

A dropdown menu containing three items: "classification", "clustering", and "regression". The "regression" option is highlighted with a black border.

- classification
- clustering
- regression

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## HOTSPOT

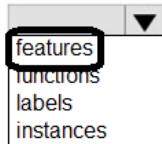
Select the answer that correctly completes the sentence.

**Answer Area**

In a machine learning model, the data that is used as inputs are called

**Answer Area**

**Correct Answer:** In a machine learning model, the data that is used as inputs are called



You have a security system that analyzes images from CCTV to provide authorized staff entry into restricted area.

Which type of computer vision does the system use?

- A. optical character recognition (OCR)
- B. semantic segmentation
- C. facial detection and facial recognition **Most Voted**
- D. image analysis

**Correct Answer:** C

*Community vote distribution*



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. assigning the color pixels in an image to object names **Most Voted**
- B. detecting inconsistencies and anomalies in a stream of data
- C. creating visual representations of numerical data
- D. creating photorealistic images by using three-dimensional models
- E. describing the contents of an image **Most Voted**

**Correct Answer:** AE

*Community vote distribution*



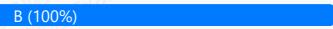
You have an app that identifies the coordinates of a product in an image of a supermarket shelf.

Which service does the app use?

- A. Custom Vision classification
- B. Custom Vision object detection **Most Voted**
- C. Computer Vision Read
- D. Computer Vision optical character recognition (OCR)

**Correct Answer:** B

*Community vote distribution*



HOTSPOT -

Select the answer that correctly completes the sentence.

### Answer Area

A traffic monitoring system that collects vehicle registration numbers from CCTV footage is an example of

▼	image classification
▼	object detection
▼	spatial Analysis
▼	text extraction

### Answer Area

A traffic monitoring system that collects vehicle registration numbers from CCTV footage is an example of

Correct Answer:

▼	image classification
▼	object detection
▼	spatial Analysis
▼	text extraction

You need to build an image tagging solution for social media that tags images of your friends automatically.

Which Azure Cognitive Services service should you use?

A. Face **Most Voted**

B. Form Recognizer

C. Language

D. Computer Vision

**Correct Answer:** A

*Community vote distribution*



## HOTSPOT

Select the answer that correctly completes the sentence.

**Answer Area**

A historian can use ▼ to digitize newspaper articles

- facial analysis
- image classification
- object detection
- optical character recognition (OCR)

**Answer Area**

**Correct Answer:** A historian can use ▼ to digitize newspaper articles

- facial analysis
- image classification
- object detection
- optical character recognition (OCR)**

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**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.

**Answer Area**

Locate the birds:

Automated captioning

Image classification

Object detection

Optical character recognition (OCR)

Identify the species of the birds:

Automated captioning

Image classification

Object detection

Optical character recognition (OCR)

**Answer Area****Correct Answer:**

Locate the birds:

Automated captioning

Image classification

**Object detection**

Optical character recognition (OCR)

Identify the species of the birds:

**Automated captioning**

**Image classification**

Object detection

Optical character recognition (OCR)

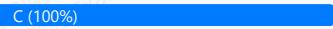
You have a solution that reads manuscripts in different languages and categorizes the manuscripts based on topic.

Which types of natural language processing (NLP) workloads does the solution use?

- A. speech recognition and entity recognition
- B. speech recognition and language modeling
- C. translation and key phrase extraction **Most Voted**
- D. translation and sentiment analysis

**Correct Answer:** C

*Community vote distribution*



**HOTSPOT**

Select the answer that correctly completes the sentence.

**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.
- forecasting.

**Answer Area**

**Correct Answer:** 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.**
- forecasting.

You have 100 instructional videos that do NOT contain any audio. Each instructional video has a script.

You need to generate a narration audio file for each video based on the script.

Which type of workload should you use?

- A. language modeling
- B. speech recognition
- C. speech synthesis **Most Voted**
- D. translation

**Correct Answer:** C

*Community vote distribution*

C (100%)

**HOTSPOT**

Select the answer that correctly completes the sentence.

**Answer Area**

Natural language processing can be used to

- classify email messages as work-related or personal
- predict the number of future car rentals
- predict which website visitors will make a transaction
- stop a process in a factory when extremely high temperatures are registered

**Answer Area**

**Correct Answer:**

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

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 **Most Voted**
- D. Speech

**Correct Answer:** C

*Community vote distribution*



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. Export the model
- B. Add utterances to the None intent **Most Voted**
- C. Create a prebuilt task entity
- D. Create a new model

**Correct Answer:** B

*Community vote distribution*



HOTSPOT

Select the answer that correctly completes the sentence.

### Answer Area

Azure Health Bot  
Microsoft Bot Framework  
Power Virtual Agents

can be used to build no-code apps that use built-in natural language processing models

Correct Answer:

Azure Health Bot  
Microsoft Bot Framework  
Power Virtual Agents

can be used to build no-code apps that use built-in natural language processing models

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**HOTSPOT**

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

NOTE: Each correct selection is worth one point.

**Answer Area**

Statements	Yes	No
A smart device in the home that responds to questions such as "When is my next appointment?" is an example of conversational AI.	<input type="radio"/>	<input type="radio"/>
An interactive webchat feature on a company website can be implemented by using Azure Bot Service.	<input type="radio"/>	<input type="radio"/>
Automatically generating captions for pre-recorded videos is an example of conversation AI.	<input type="radio"/>	<input type="radio"/>

**Answer Area**

Statements	Yes	No
<b>Correct Answer:</b> A smart device in the home that responds to questions such as "When is my next appointment?" is an example of conversational AI.	<input checked="" type="checkbox"/>	<input type="radio"/>
An interactive webchat feature on a company website can be implemented by using Azure Bot Service.	<input checked="" type="checkbox"/>	<input type="radio"/>
Automatically generating captions for pre-recorded videos is an example of conversation AI.	<input type="radio"/>	<input checked="" type="checkbox"/>

What is an example of the Microsoft responsible AI principle of transparency?

- A. ensuring that opportunities are allocated equally to all applicants
- B. helping users understand the decisions made by an AI system **Most Voted**
- C. ensuring that developers are accountable for the solutions they create
- D. ensuring that the privileged data of users is stored in a secure manner

**Correct Answer:** B

*Community vote distribution*

B (100%)

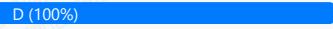
You need to provide customers with the ability to query the status of orders by using phones, social media, or digital assistants.

What should you use?

- A. an Azure Machine Learning model
- B. the Translator service
- C. a Form Recognizer model
- D. Azure Bot Service **Most Voted**

**Correct Answer:** D

*Community vote distribution*



You plan to build a conversational AI solution that can be surfaced in Microsoft Teams, Microsoft Cortana, and Amazon Alexa.

Which service should you use?

A. Azure Bot Service **Most Voted**

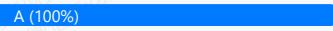
B. Azure Cognitive Search

C. Speech

D. Language service

**Correct Answer:** A

*Community vote distribution*



## 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
An interactive webchat feature on a company website can be implemented by using Azure Bot Service.	<input type="radio"/>	<input type="radio"/>
Automatically generating captions for pre-recorded videos is an example of conversational AI	<input type="radio"/>	<input type="radio"/>
A smart device in the home that responds to questions such as “When is my next appointment?” is an example of conversational AI	<input type="radio"/>	<input type="radio"/>

**Answer Area**

Statements	Yes	No
An interactive webchat feature on a company website can be implemented by using Azure Bot Service.	<input checked="" type="checkbox"/>	<input type="radio"/>
Correct Answer: Automatically generating captions for pre-recorded videos is an example of conversational AI	<input type="radio"/>	<input checked="" type="checkbox"/>
A smart device in the home that responds to questions such as “When is my next appointment?” is an example of conversational AI	<input checked="" type="checkbox"/>	<input type="radio"/>

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

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

**Correct Answer:** C

*Community vote distribution*

C (100%)

**HOTSPOT**

Select the answer that correctly completes the sentence.

**Answer Area**

Detecting unusual temperature fluctuations for a large machine is an example of

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

**Answer Area**

Detecting unusual temperature fluctuations for a large machine is an example of

**Correct Answer:**

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

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A smart device that responds to the question "What is the stock price of Contoso. Ltd.?" is an example of which AI workload?

- A. knowledge mining
- B. natural language processing **Most Voted**
- C. computer vision
- D. anomaly detection

**Correct Answer:** B

*Community vote distribution*

 B (100%)

## DRAG DROP

Match the machine learning models to the appropriate descriptions.

To answer, drag the appropriate model from the column on the left to its description on the right. Each model may be used once, more than once, or not at all.

NOTE: Each correct match is worth one point.

Models	Answer Area
Classification	A supervised machine learning model used to predict numeric values.
Clustering	A supervised machine learning model used to predict categories.
Regression	An unsupervised machine learning model used to group similar entities based on features.

Correct Answer:	Answer Area
	Regression A supervised machine learning model used to predict numeric values.
	Classification A supervised machine learning model used to predict categories.
	Clustering An unsupervised machine learning model used to group similar entities based on features.

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You are building a tool that will process images from retail stores and identify the products of competitors.

The solution must be trained on images provided by your company.

Which Azure AI service should you use?

A. Form Recognizer

B. Custom Vision **Most Voted**

C. Face

D. Computer Vision

**Correct Answer:** B

*Community vote distribution*

 B (100%)

HOTSPOT

Select the answer that correctly completes the sentence.

## Answer Area

Predicting how many hours of overtime a delivery person will work based on the number of orders received is an example of

	▼
classification. clustering. regression.	

## Answer Area

**Correct Answer:** Predicting how many hours of overtime a delivery person will work based on the number of orders received is an example of

	▼
classification. clustering. <b>regression.</b>	

Predicting agricultural yields based on weather conditions and soil quality measurements is an example of which type of machine learning model?

A. classification

B. regression **Most Voted**

C. clustering

**Correct Answer:** B

*Community vote distribution*

B (100%)

You need to identify street names based on street signs in photographs.

Which type of computer vision should you use?

- A. object detection
- B. optical character recognition (OCR) **Most Voted**
- C. image classification
- D. facial recognition

**Correct Answer:** B

*Community vote distribution*



## 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.

Workload Types	Answer Area	
Image classification		Generate captions for images.
Object detection		Extract movie title names from movie poster images.
Optical character recognition (OCR)		Locate vehicles in images.
<b>Correct Answer:</b>	<b>Answer Area</b>	
	Image classification	Generate captions for images.
	Optical character recognition (OCR)	Extract movie title names from movie poster images.
	Object detection	Locate vehicles in images.

You have a bot that identifies the brand names of products in images of supermarket shelves.

Which service does the bot use?

- A. AI enrichment for Azure Search capabilities
- B. Computer Vision Image Analysis capabilities **Most Voted**
- C. Custom Vision Image Classification capabilities
- D. Language Understanding capabilities

**Correct Answer:** B

*Community vote distribution*



You are developing a chatbot solution in Azure.

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

- A. Translator
- B. Language** Most Voted
- C. Azure Cognitive Search
- D. Speech

**Correct Answer:** B

*Community vote distribution*

