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CompTIA

About CertyIQ

We here at CertyIQ eventually got enough of the industry's greedy exam paid for. Our team of IT professionals comes with years of experience in the IT industry Prior to training CertyIQ we worked in test areas where we observed the horrors of the paywall exam preparation system.

The misuse of the preparation system has left our team disillusioned. And for that reason, we decided it was time to make a difference. We had to make In this way, CertyIQ was created to provide quality materials without stealing from everyday people who are trying to make a living.

Doubt Support

We have developed a very scalable solution using which we are able to solve 400+ doubts every single day with an average rating of 4.8 out of 5.

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John

October 19, 2022



Thanks you so much for your help. I scored 972 in my exam today. More than 90% were from your PDFs!

October 22, 2022



Passed my exam today with 891 marks. Out of 52 questions, 51 were from certyiq PDFs including Contoso case study. Thank You certyiq team!

Dana

September 04, 2022



Thanks a lot for this updated AZ-900 Q&A. I just passed my exam and got 974, I followed both of your Az-900 videos and the 6 PDF, the PDFs are very much valid, all answers are correct. Could you please create a similar video/PDF for DP900, your content/PDF's is really awesome. The team did a really good job. Thank You 😊.

Henry Rome

2 months ago



These questions are real and 100 % valid. Thank you so much for your efforts, also your 4 PDFs are awesome, I passed the DP900 exam on 1 Sept. With 968 marks. Thanks a lot, buddy!

Esmaria

2 months ago



Simple easy to understand explanations. To anyone out there wanting to write AZ900, I highly recommend 6 PDF's. Thank you so much, appreciate all your hard work in having such great content. Passed my exam Today - 3 September with 942 score.

Ahamed Shibly

2 months ago



Customer support is realy fast and helpful, I just finished my exam and this video along with the 6 PDF helped me pass! Definitely recommend getting the PDFs. Thank you!

Microsoft

(AI-900)

Microsoft Azure AI Fundamentals

Total: **246 Questions**

Link: <https://certiq.com/papers/microsoft/ai-900>

Question: 1

CertyIQ

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
- C. improved product reliability

Question: 2

CertyIQ

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.
- C. Use labels for training and features for evaluation.
- D. Randomly split the data into columns for training and columns for evaluation.

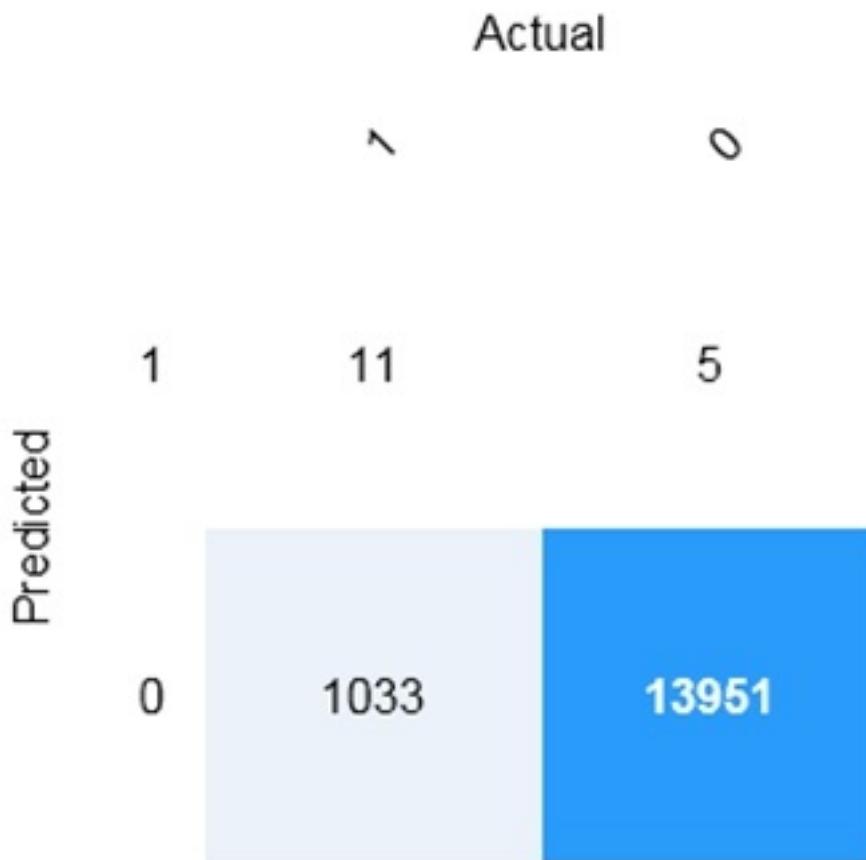
Question: 3

CertyIQ

HOTSPOT -

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

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



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

NOTE: Each correct selection is worth one point.

Hot Area:

Answer Area

There are [answer choice] correctly predicted positives.

5
11
1,033
13,951

There are [answer choice] false negatives.

5
11
1,033
13,951

Question: 4

CertyIQ

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.
- C. Set Primary metric to accuracy.
- D. Set Max concurrent iterations to 0.

Question: 5

CertyIQ

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.	<input type="radio"/>	<input type="radio"/>
Identifying suspicious sign-ins by looking for deviations from usual patterns is an example of anomaly detection.	<input type="radio"/>	<input type="radio"/>
Predicting whether a patient will develop diabetes based on the patient's medical history is an example of anomaly detection.	<input type="radio"/>	<input type="radio"/>

Question: 6

CertyIQ

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

Question: 7

CertyIQ

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

Anomaly detection

Computer vision

Conversational AI

Knowledge mining

Natural language processing

Answer Area

Workload Type

An automated chat to answer questions about refunds and exchange

Workload Type

Determining whether a photo contains a person

Workload Type

Determining whether a review is positive or negative

Question: 8

CertyIQ

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
- C. reliability and safety
- D. accountability

Question: 9

CertyIQ

DRAG DROP -

Match the Microsoft guiding principles for responsible AI to the appropriate descriptions.

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

NOTE: Each correct selection is worth one point.

Select and Place:

Principles

- Accountability
- Fairness
- Inclusiveness
- Privacy and security
- Reliability and safety

Answer Area

- Principle
- Principle
- Principle

Ensure that AI systems operate as they were originally designed, respond to unanticipated conditions, and resist harmful manipulation.

Implementing processes to ensure that decisions made by AI systems can be overridden by humans.

Provide consumers with information and controls over the collection, use, and storage of their data.

Question: 10

CertyIQ

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.



principle
of the

Question: 11

CertyIQ

You are building an AI system.

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

- A. Ensure that all visuals have an associated text that can be read by a screen reader.
- B. Enable autoscaling to ensure that a service scales based on demand.
- C. Provide documentation to help developers debug code.

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

Question: 12

CertyIQ

DRAG DROP -

Match the types of AI workloads to the appropriate scenarios.

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

NOTE: Each correct selection is worth one point.

Select and Place:

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

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

Question: 13

CertyIQ

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. inclusiveness
- D. privacy and security

Question: 14

CertyIQ

What are three Microsoft guiding principles for responsible AI? Each correct answer presents a complete solution.

NOTE: Each correct selection is worth one point.

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

Question: 15

CertyIQ

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.

Question: 16

CertyIQ

HOTSPOT -

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

Hot Area:

Answer Area

is used to generate additional features.

- Feature engineering
- Feature selection
- Model evaluation
- Model training

Question: 17

CertyIQ

You run a charity event that involves posting photos of people wearing sunglasses on Twitter.

You need to ensure that you only retweet photos that meet the following requirements:

- ⇒ Include one or more faces.
- ⇒ Contain at least one person wearing sunglasses.

What should you use to analyze the images?

- A. the Verify operation in the Face service
- B. the Detect operation in the Face service
- C. the Describe Image operation in the Computer Vision service
- D. the Analyze Image operation in the Computer Vision service

Question: 18

CertyIQ

When you design an AI system to assess whether loans should be approved, the factors used to make the decision should be explainable.

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

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

Question: 19

CertyIQ

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.	<input type="radio"/>	<input type="radio"/>
A triage bot that prioritizes insurance claims based on injuries is an example of the Microsoft reliability and safety principle for responsible AI.	<input type="radio"/>	<input type="radio"/>
An AI solution that is offered at different prices for different sales territories is an example of the Microsoft inclusiveness principle for responsible AI.	<input type="radio"/>	<input type="radio"/>

Question: 20

CertyIQ

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	<div style="border: 1px dashed #ccc; width: 150px; height: 40px;"></div>
Privacy and security	<div style="border: 1px dashed #ccc; width: 150px; height: 40px;"></div>
Reliability and safety	<div style="border: 1px dashed #ccc; width: 150px; height: 40px;"></div>
Transparency	<div style="border: 1px dashed #ccc; width: 150px; height: 40px;"></div>

The system must not discriminate based on gender, race

Personal data must be visible only to approve

Automated decision-making processes must be recorded so that approved users can identify why a decision was made

Question: 21

CertyIQ

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

Answer Area

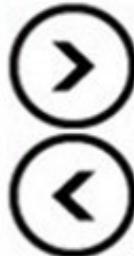
data encryption

model retraining

model training

data preparation

model evaluation



Question: 22

CertyIQ

You are building an AI-based app.

You need to ensure that the app uses the principles for responsible AI.

Which two principles should you follow? Each correct answer presents part of the solution.

NOTE: Each correct selection is worth one point.

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

Question: 23

CertyIQ

HOTSPOT -

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

Hot Area:

Answer Area

According to Microsoft's

	▼
accountability	
fairness	
inclusiveness	
transparency	

principle of responsible AI,

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

Question: 24

CertyIQ

HOTSPOT -

Select the answer that correctly completes the sentence.

Hot Area:

Answer Area

According to Microsoft's

accountability
fairness
inclusiveness
transparency

principle of responsible AI,

AI systems should **NOT** reflect biases from the data sets that are used to train the systems.**Question: 25**

CertyIQ

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

Question: 26

CertyIQ

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

- Feature engineering
- Feature selection
- Model deployment
- Model evaluation
- Model training

Answer Area

- Task Examining the values of a confusion matrix
- Task Splitting a date into month, day, and year fields
- Task Picking temperature and pressure to train a weather model

Question: 27

CertyIQ

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

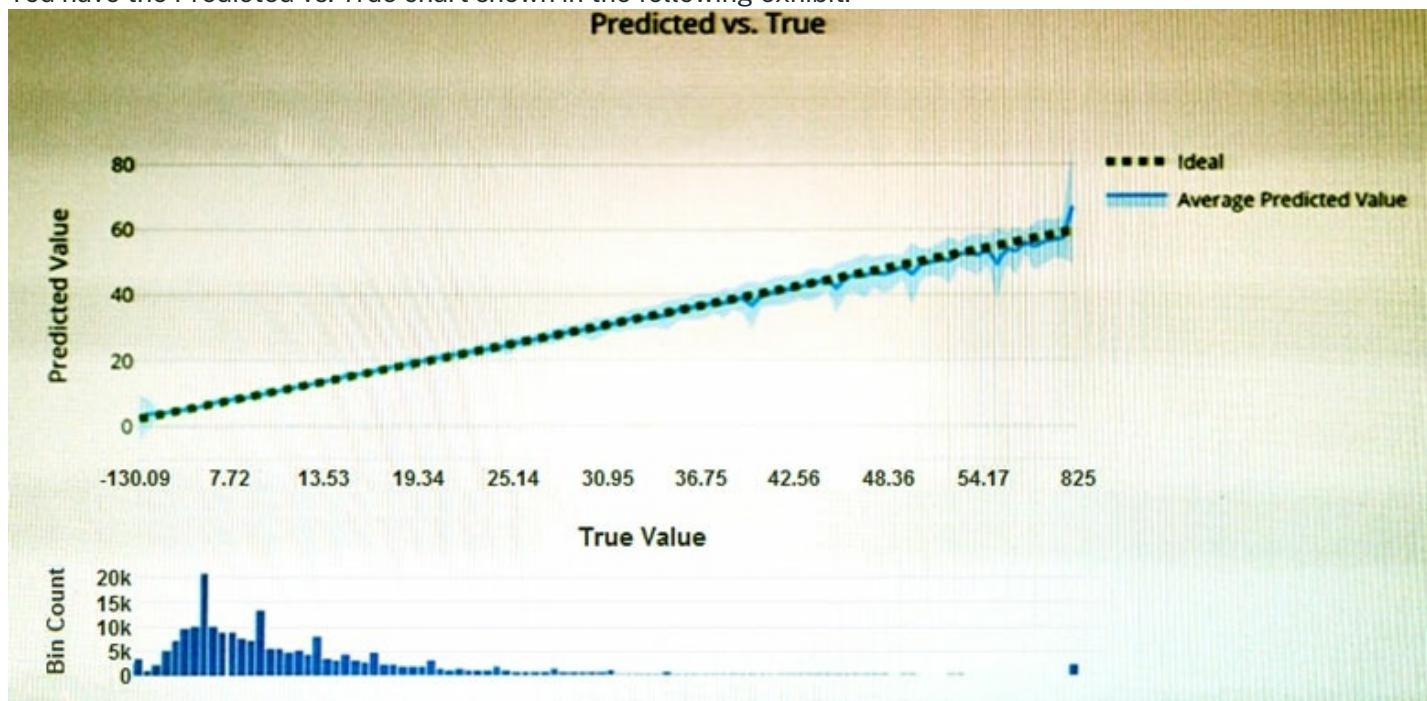
- dependant variables.
- features.
- identifiers.
- labels.

Question: 28

CertyIQ

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

Predicted vs. True



Which type of model is the chart used to evaluate?

A. classification

- B. regression
- C. clustering

Question: 29**CertyIQ**

Which type of machine learning should you use to predict the number of gift cards that will be sold next month?

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

Question: 30**CertyIQ**

You have a dataset that contains information about taxi journeys that occurred during a given period.

You need to train a model to predict the fare of a taxi journey.

What should you use as a feature?

- A. the number of taxi journeys in the dataset
- B. the trip distance of individual taxi journeys
- C. the fare of individual taxi journeys
- D. the trip ID of individual taxi journeys

Question: 31**CertyIQ**

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

Which type of machine learning should you use?

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

Question: 32**CertyIQ**

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 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"/>

Question: 33

CertyIQ

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

Question: 34

CertyIQ

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"/>

Question: 35

CertyIQ

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

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

Question: 36

CertyIQ

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

Question: 37

CertyIQ

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

Which two parameters should you use to access the web service? Each correct answer presents part of the solution.

NOTE: Each correct selection is worth one point.

- A. the model name
- B. the training endpoint
- C. the authentication key
- D. the REST endpoint

Question: 38

CertyIQ

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.

Question: 39

CertyIQ

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.

Question: 40

CertyIQ

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.	<input type="radio"/>	<input type="radio"/>
Azure Machine Learning designer enables you to save your progress as a pipeline draft.	<input type="radio"/>	<input type="radio"/>
Azure Machine Learning designer enables you to include custom JavaScript functions.	<input type="radio"/>	<input type="radio"/>

Question: 41

CertyIQ

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

Question: 42

CertyIQ

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.

Question: 43

CertyIQ

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"/>

Question: 44

CertyIQ

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

Question: 45

CertyIQ

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

Question: 46**CertyIQ**

You are evaluating whether to use a basic workspace or an enterprise workspace in Azure Machine Learning. What are two tasks that require an enterprise workspace? Each correct answer presents a complete solution.

NOTE: Each correct selection is worth one point.

- A. Use a graphical user interface (GUI) to run automated machine learning experiments.
- B. Create a compute instance to use as a workstation.
- C. Use a graphical user interface (GUI) to define and run machine learning experiments from Azure Machine Learning designer.
- D. Create a dataset from a comma-separated value (CSV) file.

Question: 47**CertyIQ**

You need to predict the income range of a given customer by using the following dataset.

First Name	Last Name	Age	Education Level	Income Range
Orlando	Gee	45	University	25,000-50,000
Keith	Harris	36	High school	25,000-50,000
Donna	Carreras	52	University	50,000-75,000
Janet	Gates	21	University	75,000-100,000
Lucy	Harrington	68	High school	50,000-75,000

Which two fields should you use as features? Each correct answer presents a complete solution.

NOTE: Each correct selection is worth one point.

- A. Education Level
- B. Last Name
- C. Age
- D. Income Range
- E. First Name

Question: 48**CertyIQ**

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
- B. Form Recognizer
- C. Face
- D. Computer Vision

Question: 49**CertyIQ**

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.

Grouping similar patients based on symptoms and diagnostic test results is an example of clustering.

Predicting whether a person will develop mild, moderate, or severe allergy symptoms based on pollen count is an example of clustering.

Question: 50

CertyIQ

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.

A validation set can be used to determine how well a model predicts labels.

A validation set can be used to verify that all the training data was used to train the model.

Question: 51

CertyIQ

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)
- B. F1 score
- C. root mean squared error (RMSE)
- D. area under curve (AUC)
- E. balanced accuracy

Question: 52

CertyIQ

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.

Question: 53

CertyIQ

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

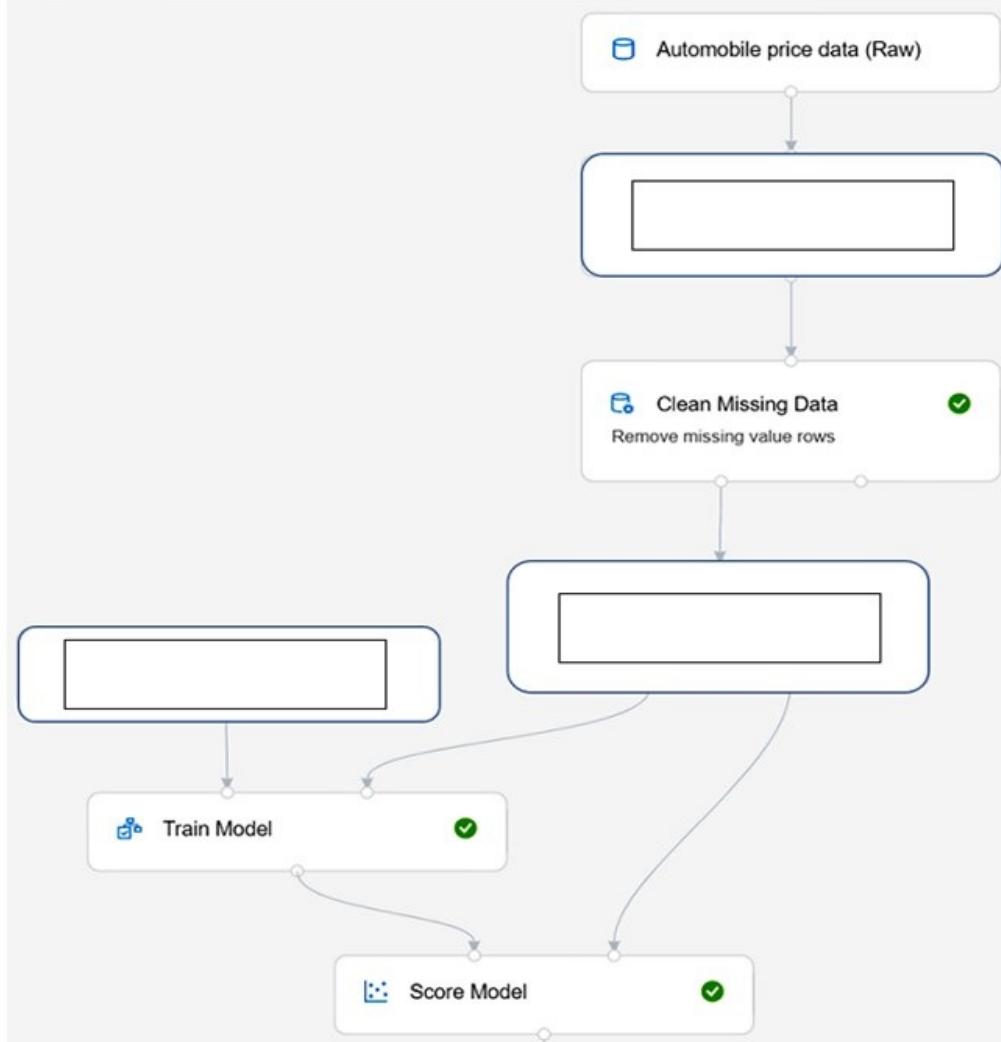
Linear Regression

Split Data

Select Columns in Dataset

Summarize Data

Answer Area



Question: 54

CertyIQ

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

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

Question: 55

CertyIQ

HOTSPOT -

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

Hot Area:

Answer Area

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

- Classification
- Clustering
- Regression

Question: 56

CertyIQ

Which metric can you use to evaluate a classification model?

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

Question: 57

CertyIQ

Which two components can you drag onto a canvas in Azure Machine Learning designer? Each correct answer presents a complete solution.

NOTE: Each correct selection is worth one point.

- A. dataset
- B. compute
- C. pipeline
- D. module

Question: 58

CertyIQ

You need to create a training dataset and validation dataset from an existing dataset.

Which module in the Azure Machine Learning designer should you use?

- A. Select Columns in Dataset
- B. Add Rows
- C. Split Data
- D. Join Data

Question: 59

CertyIQ

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:

Learning Types

Classification

Clustering

Regression

Answer Area

Learning Type

Predict how many minutes late a flight will arrive based on the amount of snowfall at an airpot.

Learning Type

Segment customers into different groups to support a marketing department.

Learning Type

Predict whether a student will complete a university course.

Question: 60

CertyIQ

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.

Question: 61

CertyIQ

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	

Question: 62

CertyIQ

HOTSPOT -

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

Hot Area:

Answer Area

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

▼
data ingestion.
feature engineering.
feature selection.
model training.

Question: 63

CertyIQ

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.

Question: 64

CertyIQ

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.

Quality Test is a label.

Temperature (C) is a label.

Question: 65

CertyIQ

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"/>

Question: 66**CertyIQ**

Which two actions are performed during the data ingestion and data preparation stage of an Azure Machine Learning process? Each correct answer presents part of the solution.

NOTE: Each correct selection is worth one point.

- A. Calculate the accuracy of the model.
- B. Score test data by using the model.
- C. Combine multiple datasets.
- D. Use the model for real-time predictions.
- E. Remove records that have missing values.

Question: 67**CertyIQ**

You need to predict the animal population of an area.

Which Azure Machine Learning type should you use?

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

Question: 68**CertyIQ**

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
- B. R
- C. C#
- D. Scala

Question: 69**CertyIQ**

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"/>

Question: 70

CertyIQ

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

Which type of AI workload should the company use?

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

Question: 71

CertyIQ

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 .	<input type="radio"/>	<input type="radio"/>
You can create an object detection model in the Custom Vision service to find the location of content within an image.	<input type="radio"/>	<input type="radio"/>
When creating an object detection model in the Custom Vision service, you can select from a set of predefined domains.	<input type="radio"/>	<input type="radio"/>

Question: 72

CertyIQ

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.
- B. Translate a form from French to English.
- C. Find image of product in a catalog.
- D. Identify the retailer from a receipt.

Question: 73

CertyIQ

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.

Question: 74

CertyIQ

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"/>

Question: 75

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)

Question: 76

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"/>

Question: 77

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)
- C. image classification
- D. object detection

Question: 78

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

Separate images of polar bears and brown bears.

Machine Learning Type

Determine the location of a bear in a photo.

Machine Learning Type

Determine which pixels in an image are part of a bear.

Question: 79**CertyIQ**

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
- B. optical character recognition (OCR)
- C. scene segmentation

Question: 80**CertyIQ**

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

grouping

identification

similarity

verification

Answer Area

Task

Do two images of a face belong to the same person?

Task

Does this person look like other people?

Task

Do all the faces belong together?

Task

Who is this person in this group of people?

Question: 81**CertyIQ**

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

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

Answer Area

Workload Type	Identify celebrities in images.
Workload Type	Extract movie title names from movie poster images.
Workload Type	Locate vehicles in images.

Question: 82

CertyIQ

You need to determine the location of cars in an image so that you can estimate the distance between the cars. Which type of computer vision should you use?

- A. optical character recognition (OCR)
- B. object detection
- C. image classification
- D. face detection

Question: 83

CertyIQ

HOTSPOT -

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

Hot Area:

Answer Area

You can use the

A dropdown menu containing the following options:

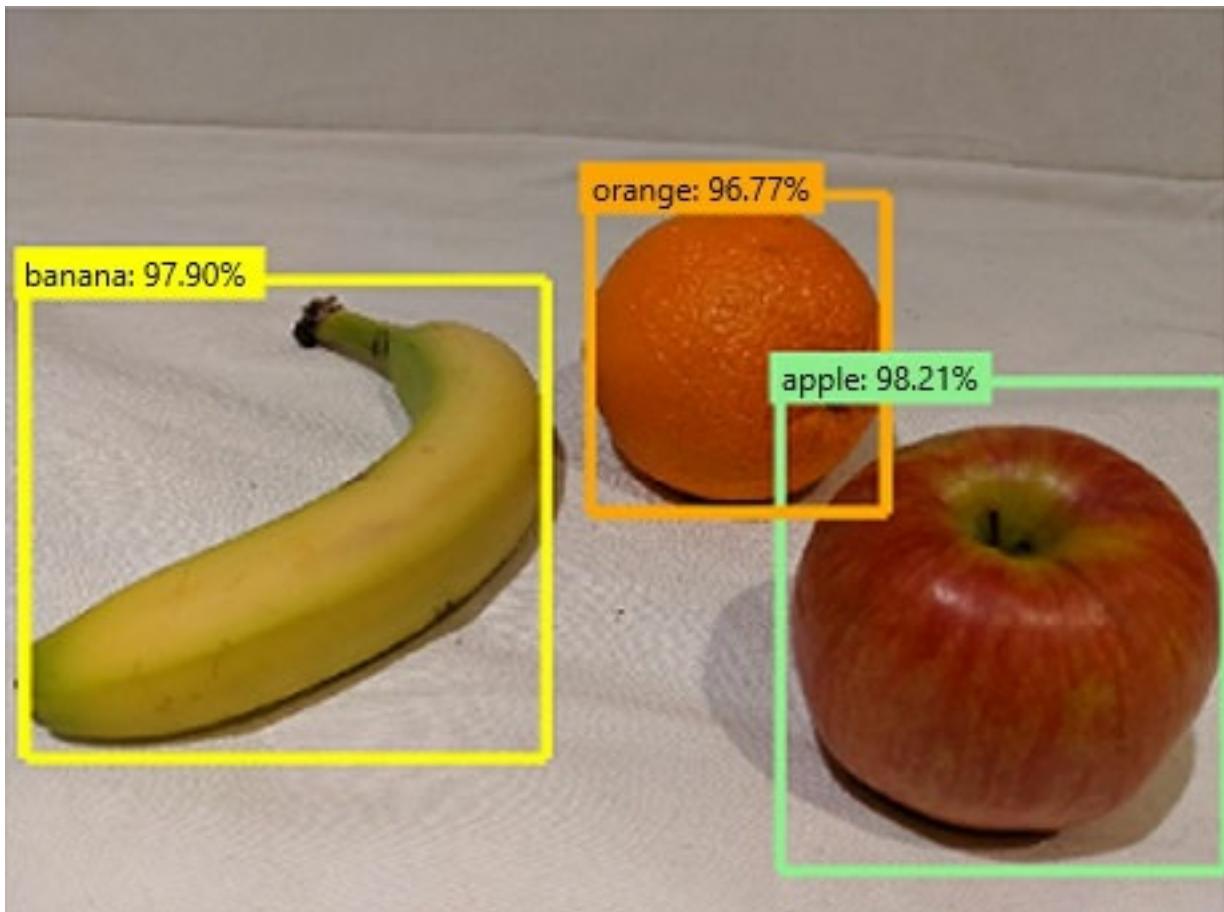
- Computer Vision
- Custom Vision
- Form Recognizer
- Video Indexer

service to train an object detection model by using your own images.

Question: 84

CertyIQ

You send an image to a Computer Vision API and receive back the annotated image shown in the exhibit.



Which type of computer vision was used?

- A. object detection
- B. face detection
- C. optical character recognition (OCR)
- D. image classification

Question: 85

CertyIQ

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

NOTE: Each correct selection is worth one point.

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

Question: 86

CertyIQ

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
- D. predicting how many minutes it will take someone to run a race based on past race times

Question: 87

CertyIQ

What are two tasks that can be performed by using computer vision? Each correct answer presents a complete solution.

NOTE: Each correct selection is worth one point.

- A. Predict stock prices.
- B. Detect brands in an image.
- C. Detect the color scheme in an image
- D. Translate text between languages.
- E. Extract key phrases.

Question: 88

CertyIQ

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
- B. Form Recognizer
- C. Text Analytics
- D. Computer Vision

Question: 89

CertyIQ

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
- B. Translate from French to English
- C. Extract the invoice number from an invoice
- D. Find images of products in a catalog

Question: 90

CertyIQ

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
identification	Task
similarity	Task
verification	Do two images of a face belong to the same person? Does this person look like other people? Who is this person in this group of people?

Question: 91

CertyIQ

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.

Question: 92**CertyIQ**

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
- D. Language

Question: 93**CertyIQ**

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.

Question: 94**CertyIQ**

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
- C. sentiment analysis
- D. language detection

Question: 95**CertyIQ**

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

NOTE: Each correct selection is worth one point.

- A. an in-car system that reads text messages aloud
- B. providing closed captions for recorded or live videos
- C. creating an automated public address system for a train station
- D. creating a transcript of a telephone call or meeting

Question: 96

CertyIQ

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.

Question: 97

CertyIQ

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
- D. Language Understanding (LUIS)

Question: 98

CertyIQ

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"/>

Question: 99

CertyIQ

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

Question: 100

CertyIQ

You plan to develop a bot that will enable users to query a knowledge base by using natural language processing.

Which two services should you include in the solution? Each correct answer presents part of the solution.

NOTE: Each correct selection is worth one point.

- A. QnA Maker
- B. Azure Bot Service
- C. Form Recognizer
- D. Anomaly Detector

Question: 101

CertyIQ

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
- 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

Question: 102

CertyIQ

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 checked="" 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"/>

Question: 103

CertyIQ

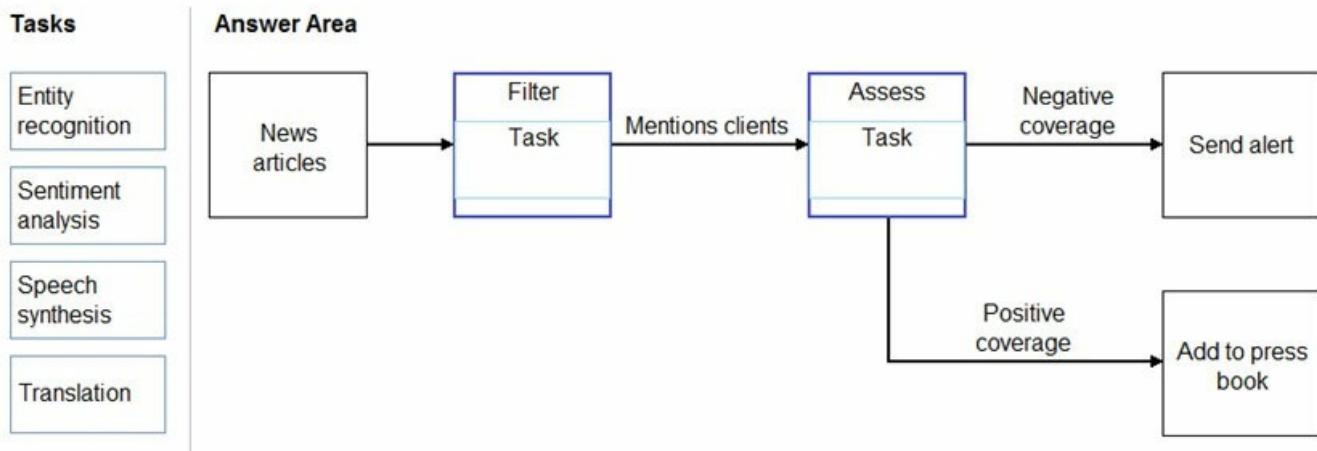
DRAG DROP -

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:



Question: 104

CertyIQ

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

Question: 105

CertyIQ

In which scenario should you use key phrase extraction?

- A. identifying whether reviews of a restaurant are positive or negative

- B. generating captions for a video based on the audio track
- C. identifying which documents provide information about the same topics
- D. translating a set of documents from English to German

Question: 106**CertyIQ**

You have insurance claim reports that are stored as text.
You need to extract key terms from the reports to generate summaries.
Which type of AI workload should you use?

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

Question: 107**CertyIQ**

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.

Question: 108**CertyIQ**

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)

Question: 109**CertyIQ**

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)

Question: 110

CertyIQ

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

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

Question: 111

CertyIQ

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"/>

Question: 112

CertyIQ

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 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	

Question: 113

CertyIQ

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"/>

Question: 114**CertyIQ**

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
- C. key phrase extraction
- D. entity recognition

Question: 115**CertyIQ**

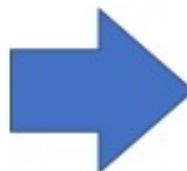
You use natural language processing to process text from a Microsoft news story.

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.

Which type of natural language processing was performed?

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



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]

Question: 116

CertyIQ

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

API Feature

API Feature

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

Summarize important information from the support ticket.

Extract key dates from the support ticket.

Question: 117

CertyIQ

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
- C. a domain
- D. an entity

Question: 118

CertyIQ

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

Question: 119

CertyIQ

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

Question: 120

CertyIQ

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

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

What should you do?

- A. Test the model by using new utterances
- B. Add utterances to the None intent
- C. Create a prebuilt task entity
- D. Create a new model

Question: 121

CertyIQ

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?"
- C. a website that uses a knowledge base to interactively respond to users' questions
- D. assembly line machinery that autonomously inserts headlamps into cars

Question: 122

CertyIQ

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
- D. language modeling
- E. translation

Question: 123

CertyIQ

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.

The Language service can detect handwritten signatures in a document.

The Language service can identify companies and organizations mentioned in a document.

Question: 124

CertyIQ

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

- Speech
- Language service
- Translator Text

Answer Area

Convert a user's speech to text

Identify a user's intent

Provide a spoken response to the user

Question: 125

CertyIQ

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
- D. Personalizer

Question: 126

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
- C. computer vision
- D. knowledge mining

Question: 127

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
- D. Personalizer

Question: 128

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

Question: 129

You are developing a conversational AI solution that will communicate with users through multiple channels including email, Microsoft Teams, and webchat.
Which service should you use?

- A. Text Analytics
- B. Azure Bot Service
- C. Translator
- D. Form Recognizer

Question: 130

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.

An application that displays images relating to an entered search term is an example of a conversational AI workload.

A web form used to submit a request to reset a password is an example of a conversational AI workload.

Question: 131

CertyIQ

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

Question: 132

CertyIQ

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
- B. Text Analytics
- C. Computer Vision
- D. Language Understanding (LUIS)

Question: 133

CertyIQ

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

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

NOTE: Each correct selection is worth one point.

- A. Text Analytics
- B. QnA Maker
- C. Azure Bot Service
- D. Translator

Question: 134

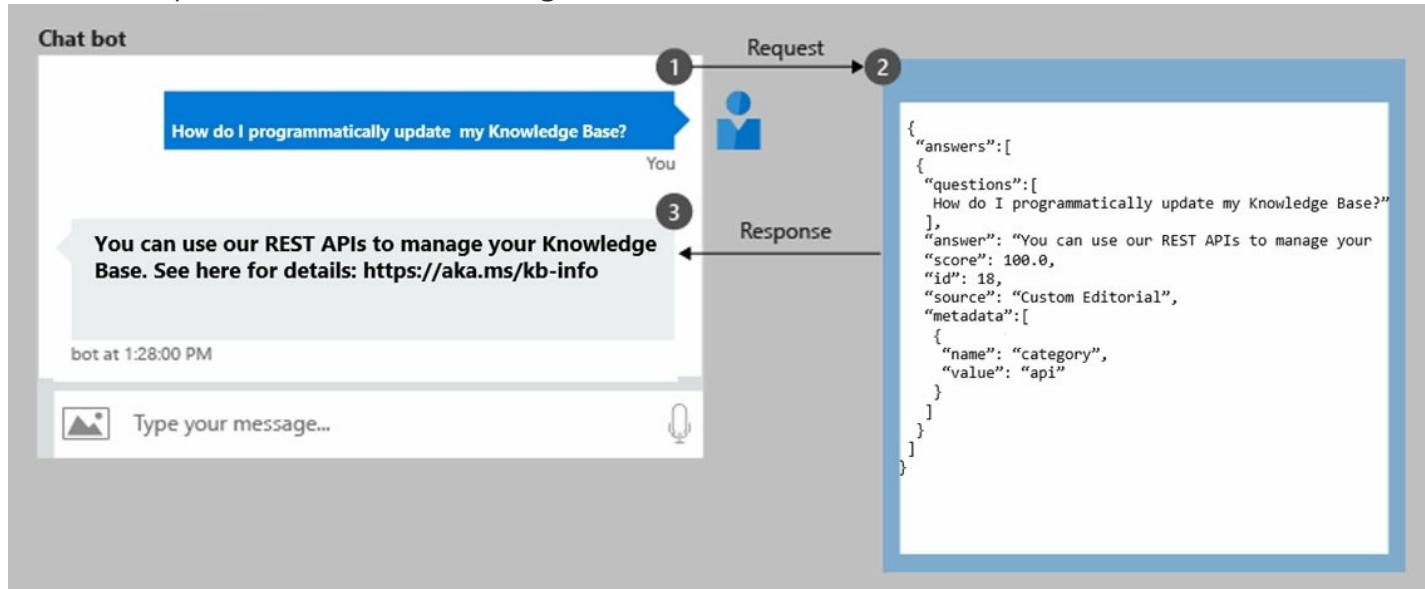
Which two scenarios are examples of a conversational AI workload? Each correct answer presents a complete solution.

NOTE: Each correct selection is worth one point.

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

Question: 135

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
- C. a machine learning model
- D. a computer vision application

Question: 136

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

Which service should you use?

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

Question: 137

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

- A. QnA Maker
- B. Language Understanding (LUIS)

- C. Text Analytics
- D. Speech

Question: 138**CertyIQ**

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.

Question: 139**CertyIQ**

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.

Question: 140**CertyIQ**

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.	<input type="radio"/>	<input type="radio"/>
You should use QnA Maker when you want a knowledge base to provide the same answer to different users who submit similar questions.	<input type="radio"/>	<input type="radio"/>
The QnA Maker service can determine the intent of a user utterance.	<input type="radio"/>	<input type="radio"/>

Question: 141

CertyIQ

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"/>

Question: 142

CertyIQ

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"/>

Question: 143

CertyIQ

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
- C. telephone voice menus to reduce the load on human resources
- D. a service that creates frequently asked questions (FAQ) documents by crawling public websites

Question: 144

CertyIQ

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"/>

Question: 145

CertyIQ

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"/>

Question: 146

CertyIQ

You have a knowledge base of frequently asked questions (FAQ).
You create a bot that uses the knowledge base to respond to customer requests.
You need to identify what the bot can perform without adding additional skills.
What should you identify?

- A. Register customer purchases.
- B. Register customer complaints.
- C. Answer questions from multiple users simultaneously.
- D. Provide customers with return materials authorization (RMA) numbers.

Question: 147

CertyIQ

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"/>

Question: 148

CertyIQ

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
<input type="radio"/>	<input type="radio"/>

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

<input type="radio"/>	<input type="radio"/>
-----------------------	-----------------------

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

<input type="radio"/>	<input type="radio"/>
-----------------------	-----------------------

Question: 149

CertyIQ

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.

Question: 150

CertyIQ

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
- C. diverting records that have missing data
- D. selecting columns that must be included in the model

Question: 151

CertyIQ

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

- A. AI systems must use only publicly available data
- B. AI systems must be transparent and inclusive
- C. AI systems must keep personal details public
- D. AI systems must protect the interests of the company

Question: 152

CertyIQ

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

Question: 153

CertyIQ

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
- C. Language Service
- D. Translator

Question: 154

CertyIQ

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		AI systems must consistently operate as intended, even under unexpected conditions.
Inclusiveness		AI systems must protect and secure personal and businesses information.
Privacy and security		
Reliability and safety		
...		
...		
...		

Question: 155

CertyIQ

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.

Question: 156

CertyIQ

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
- C. inclusiveness
- D. transparency

Question: 157

CertyIQ

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

Question: 158

CertyIQ

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	Enables the use of natural language to query a knowledge base.
Language Service	
Speech	Enables the real-time transcription of speech-to-text.

Question: 159

CertyIQ

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.

Question: 160

CertyIQ

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

Question: 161

CertyIQ

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.
- C. Create a training dataset that uses data from global insurers.
- D. Take a completely random training sample.

Question: 162

CertyIQ

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.](#)

Question: 163

CertyIQ

You have a dataset.

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

What should you do first?

- A. Load the dataset.
- B. Create a clustering model.
- C. Split the data into training and testing datasets.
- D. Create a classification model.

Question: 164

CertyIQ

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
- C. a Jupyter notebook

Question: 165

CertyIQ

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

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

Answer Area

- 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

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

Question: 166

CertyIQ

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
- D. natural language processing (NLP)

Question: 167

CertyIQ

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

Anomaly detection

Computer vision

Machine Learning (Clustering)

Natural language processing

Answer Area

Workload Type

Workload Type

Workload Type

Workload Type

Identify handwritten letters.

Predict the sentiment of a social media post.

Identify an unusual credit card payment.

Group animals based on multiple measurements.

Question: 168

CertyIQ

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
- B. translation
- C. classification
- D. clustering

Question: 169

CertyIQ

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

Question: 170

CertyIQ

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.

Question: 171

CertyIQ

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



Question: 172

CertyIQ

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
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"/>

Question: 173

CertyIQ

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.

Question: 174

CertyIQ

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.
- 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.

Question: 175

CertyIQ

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

Question: 176

CertyIQ

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.
- C. Register the training data.
- D. Provision an inference cluster.

Question: 177

CertyIQ

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

Which type of machine learning should you use?

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

Question: 178

CertyIQ

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

Question: 179

CertyIQ

HOTSPOT

Select the answer that correctly completes the sentence.

Answer Area

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

Classification
Clustering
Regression

Question: 180

CertyIQ

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)

Question: 181

CertyIQ

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"/>

Question: 182

CertyIQ

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
- C. Language
- D. Computer Vision

Question: 183

CertyIQ

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.

Question: 184

CertyIQ

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).

Question: 185

CertyIQ

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.

Question: 186

CertyIQ

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.

Question: 187

CertyIQ

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
- C. Computer Vision Image Analysis
- D. Custom Vision classification

Question: 188

CertyIQ

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)
- C. image classification
- D. object detection

Question: 189

CertyIQ

HOTSPOT

-

Select the answer that correctly completes the sentence.

Answer Area

 ▼

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

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

Question: 190

CertyIQ

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)

Question: 191

CertyIQ

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

Question: 192

CertyIQ

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.

Question: 193

CertyIQ

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	Answer Area	
Custom Vision		Identify objects in an image.
Face		Automatically import data from an invoice to a database.
Form Recognized		Identify people in an image.

Question: 194

CertyIQ

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

Question: 195

CertyIQ

Natural language processing can be used to _____.

Select the answer that correctly completes the sentence.

- A. Analyze video content
- B. Generate speech
- C. Classify email messages as work-related or personal.
- D. Classify images

Question: 196

CertyIQ

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
- B. Azure Bot Service
- C. Form Recognizer

Question: 197

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
The following service call will accept English text as an input and output Italian and French text. <code>/translate?from=it&to=fr&to=en</code>	<input type="radio"/>	<input type="radio"/>
The following service call will accept English text as an input and output Italian and French text. <code>/translate?from=en&to=fr&to=it</code>	<input type="radio"/>	<input type="radio"/>
The Translator service can be used to translate documents from English to French.	<input type="radio"/>	<input type="radio"/>

Question: 198

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
- B. speech recognition
- C. key phrase extraction
- D. entity recognition

Question: 199

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
- C. translation
- D. language modeling

Question: 200

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

Language service
Speech
Translator

Answer Area

...

Convert spoken requests into text.

Identify the intent of a user's requests.

Apply intent to entities and utterances.

Question: 201**CertyIQ**

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"/>

Question: 202**CertyIQ**

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

Question: 203**CertyIQ**

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
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"/>

Question: 204

CertyIQ

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"/>

Question: 205

CertyIQ

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

Question: 206

CertyIQ

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"/>

Question: 207

CertyIQ

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

Question: 208

CertyIQ

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

Accountability	
Fairness	A customer's personal information must be visible only to staff who are involved in the decision-making process:
Inclusiveness	The decision-making process must be recorded so that staff can identify the reasoning behind a particular quote:
Privacy and security	
Reliability and safety	The system must be accessible to customers who use screen readers or other assistive technology:
Transparency	

Question: 209

CertyIQ

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

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

Question: 210

CertyIQ

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

Question: 211

CertyIQ

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

Question: 212

CertyIQ

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

Question: 213

CertyIQ

HOTSPOT

Select the answer that correctly completes the sentence.

Answer Area

When evaluating the performance of a model, the

AUC metric
confusion matrix
ROC curve
threshold

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

Question: 214

CertyIQ

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

Question: 215

CertyIQ

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

**Question: 216**

CertyIQ

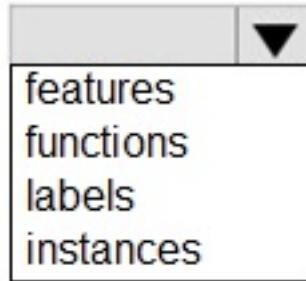
HOTSPOT

-

Select the answer that correctly completes the sentence.

Answer Area

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

**Question: 217**

CertyIQ

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
- D.image analysis

Question: 218

CertyIQ

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
- B.detecting inconsistencies and anomalies in a stream of data
- C.create visual representations of numerical data
- D.create photorealistic images by using three-dimensional models
- E.describe the contents of an image

Question: 219

CertyIQ

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
- C.Computer Vision Read
- D.Computer Vision optical character recognition (OCR)

Question: 220

CertyIQ

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

▼	in the Computer Vision service.
image classification	
object detection	
spatial Analysis	
text extraction	

Question: 221

CertyIQ

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
- B.Form Recognizer

Question: 222

HOTSPOT

-
Select the answer that correctly completes the sentence.

Answer Area

A historian can use

▼

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

to digitize newspaper articles

Question: 223

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)

Question: 224

CertyIQ

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
- D.translation and sentiment analysis

Question: 225

CertyIQ

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.

Question: 226

CertyIQ

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
- D.translation

Question: 227

CertyIQ

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

Question: 228

CertyIQ

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

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

Question: 229

CertyIQ

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
- C.Create a prebuilt task entity
- D.Create a new model

Question: 230

CertyIQ

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

Question: 231

CertyIQ

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"/>

Question: 232

CertyIQ

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
- 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

Question: 233

CertyIQ

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

Question: 234

CertyIQ

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
- B.Azure Cognitive Search
- C.Speech
- D.Language service

Question: 235

CertyIQ

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"/>

Question: 236

CertyIQ

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

Question: 237

CertyIQ

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.

Question: 238

CertyIQ

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
- C.computer vision
- D.anomaly detection

Question: 239

CertyIQ

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

Classification

Clustering

Regression

Answer Area

A supervised machine learning model used to predict numeric values.

A supervised machine learning model used to predict categories.

An unsupervised machine learning model used to group similar entities based on features.

Question: 240

CertyIQ

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
- C.Face
- D.Computer Vision

Question: 241

CertyIQ

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.	

Question: 242

CertyIQ

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
- C.clustering

Question: 243

CertyIQ

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)
- C.image classification
- D.facial recognition

Question: 244

CertyIQ

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	<div style="border: 2px dashed #ccc; width: 150px; height: 50px; margin-bottom: 10px;"></div>
Object detection	<div style="border: 2px dashed #ccc; width: 150px; height: 50px; margin-bottom: 10px;"></div>
Optical character recognition (OCR)	<div style="border: 2px dashed #ccc; width: 150px; height: 50px;"></div>

Generate captions for images.

Extract movie title names from movie poster images.

Locate vehicles in images.

Question: 245

CertyIQ

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
- C.Custom Vision Image Classification capabilities
- D.Language Understanding capabilities

Question: 246

CertyIQ

You are developing a chatbot solution in Azure.

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

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

Thank you

Thank you for being so interested in the premium exam material.

I'm glad to hear that you found it informative and helpful.

If you have any feedback or thoughts on the bumps, I would love to hear them.
Your insights can help me improve our writing and better understand our readers.

Best of Luck

You have worked hard to get to this point, and you are well-prepared for the exam
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