



**Microsoft**

**Exam Questions AI-900**

Microsoft Azure AI Fundamentals (beta)

NEW QUESTION 1

HOTSPOT - (Topic 5)

Select the answer that correctly completes the sentence.

Answer Area

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

computer vision.

forecasting.

computer vision.

knowledge mining.

anomaly detection.

- A. Mastered
- B. Not Mastered

Answer: A

Explanation:

Answer Area

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

computer vision.

forecasting.

computer vision.

knowledge mining.

anomaly detection.

NEW QUESTION 2

HOTSPOT - (Topic 5)

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.

Answer Area

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

- A. Mastered
- B. Not Mastered

Answer: A

Explanation:

Answer Area

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

NEW QUESTION 3

HOTSPOT - (Topic 5)

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

NOTE: Each correct selection is worth one point.

Statements	Yes	No
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 be like today?" is an example of conversational AI.	<input type="radio"/>	<input type="radio"/>

- A. Mastered
- B. Not Mastered

Answer: A

Explanation:

Statements	Yes	No
A webchat bot can interact with users visiting a website.	<input checked="" 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 be like today?" is an example of conversational AI.	<input type="radio"/>	<input type="radio"/>

NEW QUESTION 4

HOTSPOT - (Topic 5)

Select the answer that correctly completes the sentence.

Answer Area

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

numeric.

boolean.

datetime.

numeric.

text.

- A. Mastered
- B. Not Mastered

Answer: A

Explanation:

Answer Area

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

numeric.

boolean.

datetime.

numeric.

text.

NEW QUESTION 5

HOTSPOT - (Topic 5)

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.

- A. Mastered
- B. Not Mastered

Answer: A

Explanation:

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.

NEW QUESTION 6

HOTSPOT - (Topic 5)

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

NOTE: Each correct selection is worth one point.

Statements	Yes	No
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"/>

- A. Mastered
- B. Not Mastered

Answer: A

Explanation:

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

NEW QUESTION 7

HOTSPOT - (Topic 5)

Select the answer that correctly completes the sentence.

Answer Area

When evaluating the performance of a model, the 

confusion matrix  
AUC metric  
confusion matrix  
ROC curve  
threshold

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

- A. Mastered
- B. Not Mastered

Answer: A

Explanation:

Answer Area

When evaluating the performance of a model, the 

confusion matrix  
AUC metric  
confusion matrix  
ROC curve  
threshold

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

NEW QUESTION 8

- (Topic 5)  
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

Answer: B

**Explanation:**  
QnA Maker is a cloud-based API service that lets you create a conversational question- and-answer layer over your existing data. Use it to build a knowledge base by extracting questions and answers from your semistructured content, including FAQs, manuals, and documents. Answer users' questions with the best answers from the QnAs in your knowledge base—automatically. Your knowledge base gets smarter, too, as it continually learns from user behavior.  
Reference:  
<https://azure.microsoft.com/en-us/services/cognitive-services/qna-maker/>

NEW QUESTION 9

- (Topic 5)  
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 athumbs 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.

Answer: D

NEW QUESTION 10

HOTSPOT - (Topic 5)  
Select the answer that correctly completes the sentence.

Answer Area

The 

Form Recognizer  
Computer Vision  
Conversational Language Understanding  
Custom Vision  
Form Recognizer

 service can be used to extract information from a driver's license to populate a database.

- A. Mastered
- B. Not Mastered

Answer: A

**Explanation:**

Answer Area

The 

Form Recognizer  
Computer Vision  
Conversational Language Understanding  
Custom Vision  
Form Recognizer

 service can be used to extract information from a driver's license to populate a database.

NEW QUESTION 10

DRAG DROP - (Topic 5)  
Match the machine learning models to the appropriate deceptions.  
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.

- A. Mastered
- B. Not Mastered

Answer: A



Explanation:

Models

Classification

Clustering

Regression

Answer Area

Regression

Classification

Clustering

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.

NEW QUESTION 14

- (Topic 5)  
You need to predict the animal population of an area. Which Azure Machine Learning type should you use?

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

Answer: C

NEW QUESTION 16

HOTSPOT - (Topic 5)  
Select the answer that correctly completes the sentence.

Answer Area

According to Microsoft's 

fairness

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.

- A. Mastered
- B. Not Mastered

Answer: A

Explanation:

Answer Area

According to Microsoft's 

fairness

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.

NEW QUESTION 19

HOTSPOT - (Topic 5)  
Select the answer that correctly completes the sentence

Answer Area

Object detection

Image classification

Image description

Object detection

Optical character recognition (OCR)

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

- A. Mastered
- B. Not Mastered

Answer: A

Explanation:

Answer Area

Object detection

Image classification

Image description

Object detection

Optical character recognition (OCR)

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

NEW QUESTION 22

HOTSPOT - (Topic 5)

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

NOTE: Each correct selection is worth one point.

Statements	Yes	No
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"/>

- A. Mastered
- B. Not Mastered

Answer: A

Explanation:

Statements	Yes	No
You can use QnA Maker to query an Azure SQL database.	<input type="radio"/>	<input checked="" 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 checked="" type="radio"/>	<input type="radio"/>
The QnA Maker service can determine the intent of a user utterance.	<input type="radio"/>	<input checked="" type="radio"/>

NEW QUESTION 26

- (Topic 5)

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

Answer: C

NEW QUESTION 29

HOTSPOT - (Topic 5)

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

detection.

analysis.

detection.

recognition.

- A. Mastered

B. Not Mastered

Answer: A

Explanation:

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

detection.

analysis.

detection.

recognition.

NEW QUESTION 31

- (Topic 5)

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. translation  
C. language modeling  
D. named entity recognition

Answer: D

NEW QUESTION 33

- (Topic 5)

You use Azure Machine Learning designer to build a model pipeline. What should you create before you can run the pipeline?

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

Answer: C

NEW QUESTION 37

- (Topic 5)

You need to track multiple versions of a model that was trained by using Azure Machine Learning. What should you do?

- A. Provision an inference duster.  
B. Explain the model.  
C. Register the model.  
D. Register the training data.

Answer: C

NEW QUESTION 42

HOTSPOT - (Topic 5)

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 only be built by using custom code.	<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"/>

- A. Mastered  
B. Not Mastered

Answer: A



Explanation:

Answer Area

Statements	Yes	No
Chatbots can only be built by using custom code.	<input type="radio"/>	<input checked="" type="radio"/>
The Azure Bot Service provides services that can be used to host conversational bots.	<input checked="" type="radio"/>	<input type="radio"/>
Bots built by using the Azure Bot Service can communicate with Microsoft Teams users.	<input checked="" type="radio"/>	<input type="radio"/>

NEW QUESTION 44

- (Topic 5)  
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 features and a dataset for label
- B. Use the features dataset for evaluation.
- C. Split the original dataset into a dataset for training and a dataset for testin
- D. Use the training dataset for evaluation.
- E. Split the original dataset into a dataset for training and a dataset for testin
- F. Use the testing dataset for evaluation.
- G. Use the original dataset for training and evaluation.

Answer: C

NEW QUESTION 48

HOTSPOT - (Topic 5)  
To complete the sentence, select the appropriate option in the 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.

- A. Mastered
- B. Not Mastered

Answer: A

Explanation:  
With Microsoft’s Conversational AI tools developers can build, connect, deploy, and manage intelligent bots that naturally interact with their users on a website, app, Cortana, Microsoft Teams, Skype, Facebook Messenger, Slack, and more.

NEW QUESTION 52

HOTSPOT - (Topic 5)  
Select the answer that correctly completes the sentence.

Azure Machine Learning designer lets you create machine learning models by

adding and connecting modules on a visual canvas.

adding and connecting modules on a visual canvas.

automatically performing common data preparation tasks.

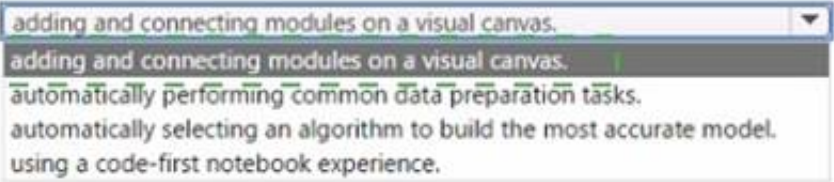
automatically selecting an algorithm to build the most accurate model.

using a code-first notebook experience.

- A. Mastered
- B. Not Mastered

Answer: A

Explanation:


Azure Machine Learning designer lets you create machine learning models by 

NEW QUESTION 53

HOTSPOT - (Topic 5)

Select the answer that correctly completes the sentence.

Answer Area




- A. Mastered
- B. Not Mastered

Answer: A

Explanation:

Answer Area



NEW QUESTION 57

HOTSPOT - (Topic 5)

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 

- A. Mastered
- B. Not Mastered

Answer: A

Explanation:

Answer Area

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

NEW QUESTION 62

- (Topic 5)

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

- A product troubleshooting guide m a Microsoft Word document
- A frequently asked questions (FAQ) list on a webpage Which service should you use to process the documents?

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

Answer: D

NEW QUESTION 64

HOTSPOT - (Topic 5)

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
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"/>

- A. Mastered  
B. Not Mastered

Answer: A

Explanation:

Box 1: Yes  
Azure bot service can be integrated with the powerful AI capabilities with Azure Cognitive Services.  
Box 2: Yes  
Azure bot service engages with customers in a conversational manner.  
Box 3: No  
The QnA Maker service creates knowledge base, not question and answers sets.  
Note: You can use the QnA Maker service and a knowledge base to add question-and- answer support to your bot. When you create your knowledge base, you seed it with questions and answers.

NEW QUESTION 69

- (Topic 5)  
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. translation  
C. language modeling  
D. key phrase extraction  
E. speech-to-text

Answer: DE

NEW QUESTION 71

HOTSPOT - (Topic 5)  
HOTSPOT  
For each of the following statements, select Yes if the statement is true. Otherwise, select No.  
NOTE: Each correct selection is worth one point.

Statements	Yes	No
You can communicate with a bot by using email.	<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"/>

- A. Mastered  
B. Not Mastered

Answer: A

Explanation:

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

#### NEW QUESTION 75

FILL IN THE BLANK - (Topic 5)

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

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

- A. Mastered
- B. Not Mastered

**Answer:** A

**Explanation:**

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

#### NEW QUESTION 78

- (Topic 4)

In which scenario should you use key phrase extraction?

- A. translating a set of documents from English to German
- B. generating captions for a video based on the audio track
- C. identifying whether reviews of a restaurant are positive or negative
- D. identifying which documents provide information about the same topics

**Answer:** D

#### NEW QUESTION 81

- (Topic 4)

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

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

**Answer:** D

**Explanation:**

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

#### NEW QUESTION 83

- (Topic 4)

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

**Answer:** B

**Explanation:**

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

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

Reference:

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

#### NEW QUESTION 86

HOTSPOT - (Topic 4)



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 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"/>

- A. Mastered
- B. Not Mastered

**Answer:** A

### Explanation:

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

Box 1: Yes

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

Box 2: No

Box 3: Yes

Named Entity Recognition: Identify and categorize entities in your text as people, places, organizations, date/time, quantities, percentages, currencies, and more. Well-known entities are also recognized and linked to more information on the web.

## NEW QUESTION 90

- (Topic 4)

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

**Answer:** B

### Explanation:

The None intent is filled with utterances that are outside of your domain. Reference:  
<https://docs.microsoft.com/en-us/azure/cognitive-services/LUIS/luis-concept-intent>

## NEW QUESTION 92

- (Topic 4)

You are developing a Chabot solution in Azure.

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

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

**Answer:** B

### Explanation:

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

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

Reference:

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

## NEW QUESTION 93

- (Topic 4)

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. conversational AI
- B. anomaly detection



- C. natural language processing
- D. computer vision

**Answer:** C

**Explanation:**

Key phrase extraction is the concept of evaluating the text of a document, or documents, and then identifying the main talking points of the document(s). Key phrase extraction is a part of Text Analytics. The Text Analytics service is a part of the Azure Cognitive Services offerings that can perform advanced natural language processing over raw text.  
<https://docs.microsoft.com/en-us/learn/modules/analyze-text-with-text-analytics-service/2-get-started-azure>

**NEW QUESTION 96**

- (Topic 4)

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 Text
- C. Speech
- D. Language Understanding (LUIS)

**Answer:** C

**Explanation:**

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

**NEW QUESTION 101**

- (Topic 3)

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

**Answer:** B

**Explanation:**

Object detection is similar to tagging, but the API returns the bounding box coordinates (in pixels) for each object found. For example, if an image contains a dog, cat and person, the Detect operation will list those objects together with their coordinates in the image. You can use this functionality to process the relationships between the objects in an image. It also lets you determine whether there are multiple instances of the same tag in an image. The Detect API applies tags based on the objects or living things identified in the image. There is currently no formal relationship between the tagging taxonomy and the object detection taxonomy. At a conceptual level, the Detect API only finds objects and living things, while the Tag API can also include contextual terms like "indoor", which can't be localized with bounding boxes. Reference:  
<https://docs.microsoft.com/en-us/azure/cognitive-services/computer-vision/concept-object-detection>

**NEW QUESTION 105**

- (Topic 3)

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

**Answer:** D

**NEW QUESTION 110**

- (Topic 3)

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)

**Answer:** D

**Explanation:**

Azure's Computer Vision API includes Optical Character Recognition (OCR) capabilities that extract printed or handwritten text from images. You can extract text from images, such as photos of license plates or containers with serial numbers, as well as from documents - invoices, bills, financial reports, articles, and more. Reference:  
<https://docs.microsoft.com/en-us/azure/cognitive-services/computer-vision/concept-recognizing-text>

#### NEW QUESTION 114

- (Topic 3)

You are processing photos of runners in a race.

You need to read the numbers on the runners' shirts to identity the runners in the photos. Which type of computer vision should you use?

- A. facial recognition
- B. optical character recognition (OCR)
- C. semantic segmentation
- D. object detection

**Answer:** B

#### Explanation:

Optical character recognition (OCR) allows you to extract printed or handwritten text from images and documents.

Reference:

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

#### NEW QUESTION 118

- (Topic 2)

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

**Answer:** A

#### Explanation:

Reference:

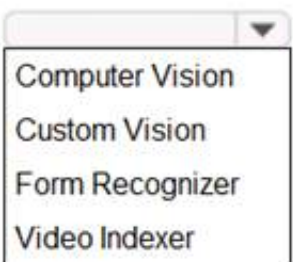
<https://docs.microsoft.com/en-us/azure/cognitive-services/custom-vision-service/overview>

#### NEW QUESTION 123

HOTSPOT - (Topic 3)

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

#### Answer Area

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

- A. Mastered
- B. Not Mastered

**Answer:** A

#### Explanation:

Azure Custom Vision is a cognitive service that lets you build, deploy, and improve your own image classifiers. An image classifier is an AI service that applies labels (which represent classes) to images, according to their visual characteristics. Unlike the Computer Vision service, Custom Vision allows you to specify the labels to apply.

Note: The Custom Vision service uses a machine learning algorithm to apply labels to images. You, the developer, must submit groups of images that feature and lack the characteristics in question. You label the images yourself at the time of submission. Then the algorithm trains to this data and calculates its own accuracy by testing itself on those same images. Once the algorithm is trained, you can test, retrain, and eventually use it to classify new images according to the needs of your app. You can also export the model itself for offline use.

#### NEW QUESTION 124

- (Topic 3)

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.

**Answer:** BC

#### NEW QUESTION 129

DRAG DROP - (Topic 2)

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.

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

- A. Mastered
- B. Not Mastered

Answer: A

Explanation:

Box 1: Model evaluation  
The Model evaluation module outputs a confusion matrix showing the number of true positives, false negatives, false positives, and true negatives, as well as ROC, Precision/Recall, and Lift curves.

Box 2: Feature engineering  
Feature engineering is the process of using domain knowledge of the data to create features that help ML algorithms learn better. In Azure Machine Learning, scaling and normalization techniques are applied to facilitate feature engineering. Collectively, these techniques and feature engineering are referred to as featurization.

Note: Often, features are created from raw data through a process of feature engineering. For example, a time stamp in itself might not be useful for modeling until the information is transformed into units of days, months, or categories that are relevant to the problem, such as holiday versus working day.

Box 3: Feature selection  
In machine learning and statistics, feature selection is the process of selecting a subset of relevant, useful features to use in building an analytical model. Feature selection helps narrow the field of data to the most valuable inputs. Narrowing the field of data helps reduce noise and improve training performance.

NEW QUESTION 132

HOTSPOT - (Topic 2)  
To complete the sentence, select the appropriate option in the answer area.

▼

Accuracy

Confidence

Root Mean Square Error

Sentiment

is the calculated probability of a correct image classification.

- A. Mastered
- B. Not Mastered

Answer: A

Explanation:

▼

Accuracy

Confidence

Root Mean Square Error

Sentiment

is the calculated probability of a correct image classification.

NEW QUESTION 134

- (Topic 2)  
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

Answer: B

Explanation:

The label is the column you want to predict. The identified Features are the inputs you give the model to predict the Label.  
Example:

The provided data set contains the following columns:

vendor\_id: The ID of the taxi vendor is a feature. rate\_code: The rate type of the taxi trip is a feature.

passenger\_count: The number of passengers on the trip is a feature.

trip\_time\_in\_secs: The amount of time the trip took. You want to predict the fare of the trip before the trip is completed. At that moment, you don't know how long the trip would take.

Thus, the trip time is not a feature and you'll exclude this column from the model. trip\_distance: The distance of the trip is a feature.

payment\_type: The payment method (cash or credit card) is a feature. fare\_amount: The total taxi fare paid is the label.

Reference:

<https://docs.microsoft.com/en-us/dotnet/machine-learning/tutorials/predict-prices>

#### NEW QUESTION 138

HOTSPOT - (Topic 2)

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

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

▼

classification.

clustering.

regression.

- A. Mastered
- B. Not Mastered

**Answer:** A

#### Explanation:

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

#### NEW QUESTION 143

HOTSPOT - (Topic 2)

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.

#### Answer Area

Household Income: 

▼

A feature

A label

House Price Category: 

▼

A feature

A label

- A. Mastered
- B. Not Mastered

**Answer:** A

#### Explanation:

Box 1: A feature Box 2: A label

#### NEW QUESTION 145

- (Topic 2)

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

**Answer:** C



**Explanation:**  
Reference:  
<https://docs.microsoft.com/en-us/learn/modules/create-classification-model-azure-machine-learning-designer/introduction>

**NEW QUESTION 146**  
HOTSPOT - (Topic 2)  
For each of the following statements, select Yes if the statement is true. Otherwise, select No.  
NOTE: Each correct selection is worth one point.

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

- A. Mastered
- B. Not Mastered

Answer: A

**Explanation:**  
Box 1: No  
The validation dataset is different from the test dataset that is held back from the training of the model.  
Box 2: Yes  
A validation dataset is a sample of data that is used to give an estimate of model skill while tuning model’s hyperparameters.  
Box 3: No  
The Test Dataset, not the validation set, used for this. The Test Dataset is a sample of data used to provide an unbiased evaluation of a final model fit on the training dataset.

**NEW QUESTION 147**  
HOTSPOT - (Topic 2)  
To complete the sentence, select the appropriate option in the answer area.

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

evaluation.

feature engineering

hyperparameter tuning.

labeling.

- A. Mastered
- B. Not Mastered

Answer: A

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

evaluation.

feature engineering

hyperparameter tuning.

labeling.

**NEW QUESTION 151**  
- (Topic 2)  
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

Answer: C

**Explanation:**  
In the most basic sense, regression refers to prediction of a numeric target. Linear regression attempts to establish a linear relationship between one or more independent variables and a numeric outcome, or dependent variable.  
You use this module to define a linear regression method, and then train a model using a labeled dataset. The trained model can then be used to make predictions.



Reference:

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

Regression is a form of machine learning that is used to predict a numeric label based on an item's features.

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

#### NEW QUESTION 152

HOTSPOT - (Topic 2)

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
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"/>

A. Mastered

B. Not Mastered

Answer: A

#### Explanation:

Box 1: Yes

In machine learning, if you have labeled data, that means your data is marked up, or annotated, to show the target, which is the answer you want your machine learning model to predict.

In general, data labeling can refer to tasks that include data tagging, annotation, classification, moderation, transcription, or processing.

Box 2: No

Box 3: No

Accuracy is simply the proportion of correctly classified instances. It is usually the first metric you look at when evaluating a classifier. However, when the test data is unbalanced (where most of the instances belong to one of the classes), or you are more interested in the performance on either one of the classes, accuracy doesn't really capture the effectiveness of a classifier.

#### NEW QUESTION 156

HOTSPOT - (Topic 2)

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
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"/>

A. Mastered

B. Not Mastered

Answer: A

#### Explanation:

Box 1: Yes

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

Box 2: Yes

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

As you edit a pipeline in the designer, your progress is saved as a pipeline draft. Box 3: No

#### NEW QUESTION 160

- (Topic 2)

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

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

**Answer:** C

**Explanation:**

Clustering is a machine learning task that is used to group instances of data into clusters that contain similar characteristics. Clustering can also be used to identify relationships in a dataset

Reference:

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

**NEW QUESTION 162**

DRAG DROP - (Topic 2)

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.

Learning Types	Answer Area
Classification	Learning Type Predict how many minutes late a flight will arrive basen on the amount of snowfall at an airpoint.
Clustering	Learning Type Segment customers into different groups to support a marketing department.
Regression	Learning Type Predict whether a student will complete a university course.

- A. Mastered
- B. Not Mastered

**Answer:** A

**Explanation:**

- 1- Regression
- 2- Clustering
- 3- Classification

**NEW QUESTION 164**

HOTSPOT - (Topic 2)

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
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"/>

- A. Mastered
- B. Not Mastered

**Answer:** A

**Explanation:**

Box 1: Yes

Automated machine learning, also referred to as automated ML or AutoML, is the process of automating the time consuming, iterative tasks of machine learning model development. It allows data scientists, analysts, and developers to build ML models with high scale, efficiency, and productivity all while sustaining model quality.

Box 2: No

Box 3: Yes

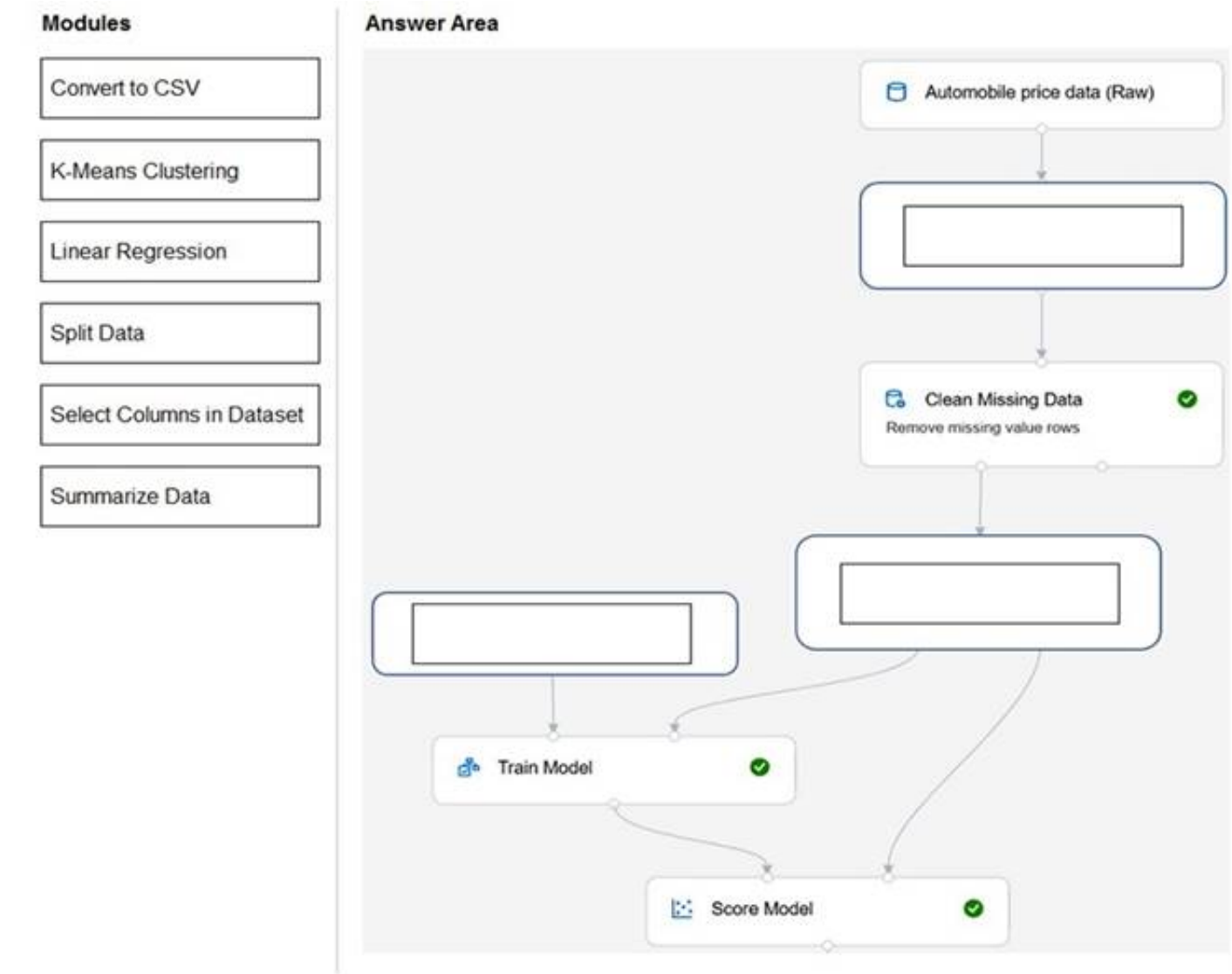
During training, Azure Machine Learning creates a number of pipelines in parallel that try different algorithms and parameters for you. The service iterates through ML algorithms paired with feature selections, where each iteration produces a model with a training score. The higher the score, the better the model is considered to "fit" your data. It will stop once it hits the exit criteria defined in the experiment.

Box 4: No  
 Apply automated ML when you want Azure Machine Learning to train and tune a model for you using the target metric you specify.  
 The label is the column you want to predict.

**NEW QUESTION 166**

DRAG DROP - (Topic 2)

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.

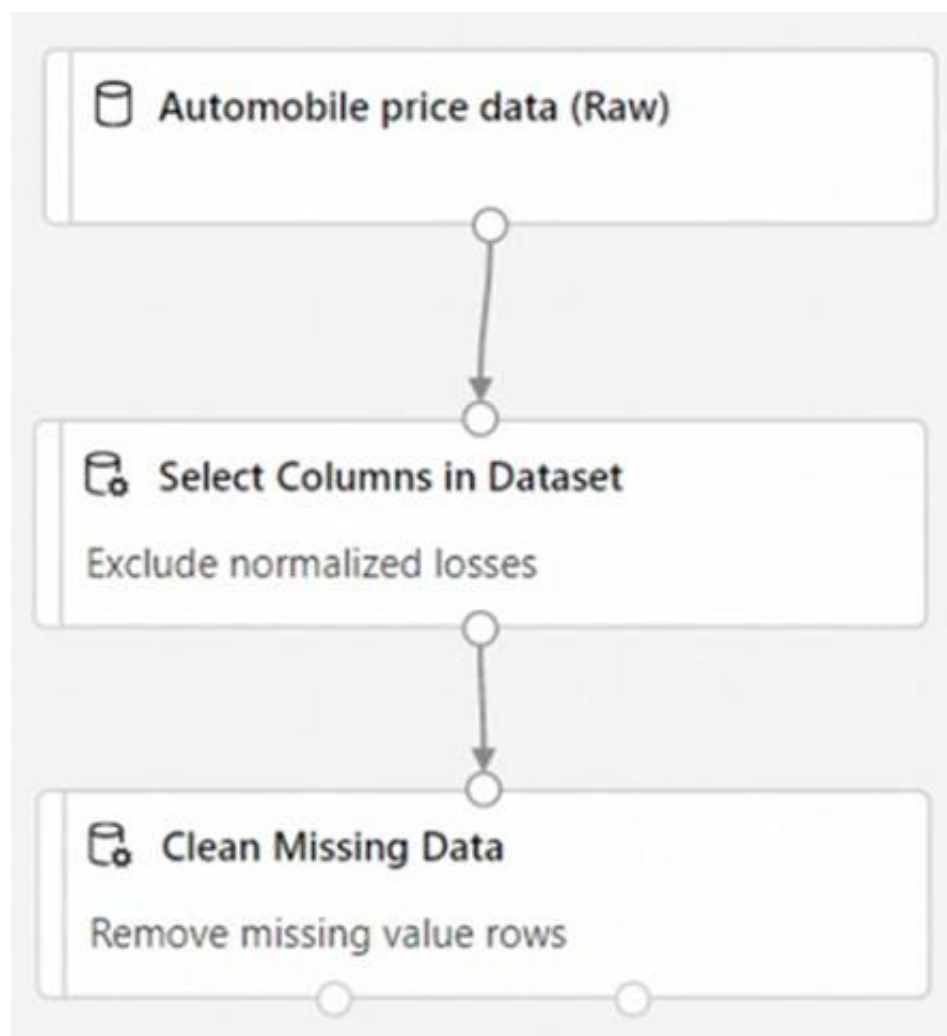


- A. Mastered
- B. Not Mastered

**Answer:** A

**Explanation:**

Box 1: Select Columns in Dataset  
 For Columns to be cleaned, choose the columns that contain the missing values you want to change. You can choose multiple columns, but you must use the same replacement method in all selected columns.  
 Example:



Box 2: Split data

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

Box 3: Linear regression

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

#### NEW QUESTION 171

- (Topic 1)

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

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

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

**Answer: C**

#### Explanation:

Reference:

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

AI systems should empower everyone and engage people. AI should bring benefits to all parts of society, regardless of physical ability, gender, sexual orientation, ethnicity, or other factors.

<https://docs.microsoft.com/en-us/learn/modules/get-started-ai-fundamentals/7-understand-responsible-ai>

#### NEW QUESTION 174

DRAG DROP - (Topic 1)

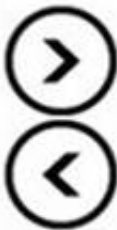
You plan to deploy an Azure Machine Learning model as a service that will be used by client applications.

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.



Processes

- data encryption
- model retraining
- model training
- data preparation
- model evaluation



Answer Area

- A. Mastered  
B. Not Mastered

Answer: A

Explanation:

Processes

- data encryption
- model retraining
- model training
- data preparation
- model evaluation



Answer Area

- data preparation
- model training
- model evaluation

NEW QUESTION 177

HOTSPOT - (Topic 1)

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

NOTE: Each correct selection is worth one point.

Statements	Yes	No
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"/>

- A. Mastered  
B. Not Mastered

Answer: A

Explanation:

Box 1: Yes

Achieving transparency helps the team to understand the data and algorithms used to train the model, what transformation logic was applied to the data, the final model generated, and its associated assets. This information offers insights about how the model was created, which allows it to be reproduced in a transparent way.

Box 2: No

A data holder is obligated to protect the data in an AI system, and privacy and security are an integral part of this system. Personal needs to be secured, and it



should be accessed in a way that doesn't compromise an individual's privacy.

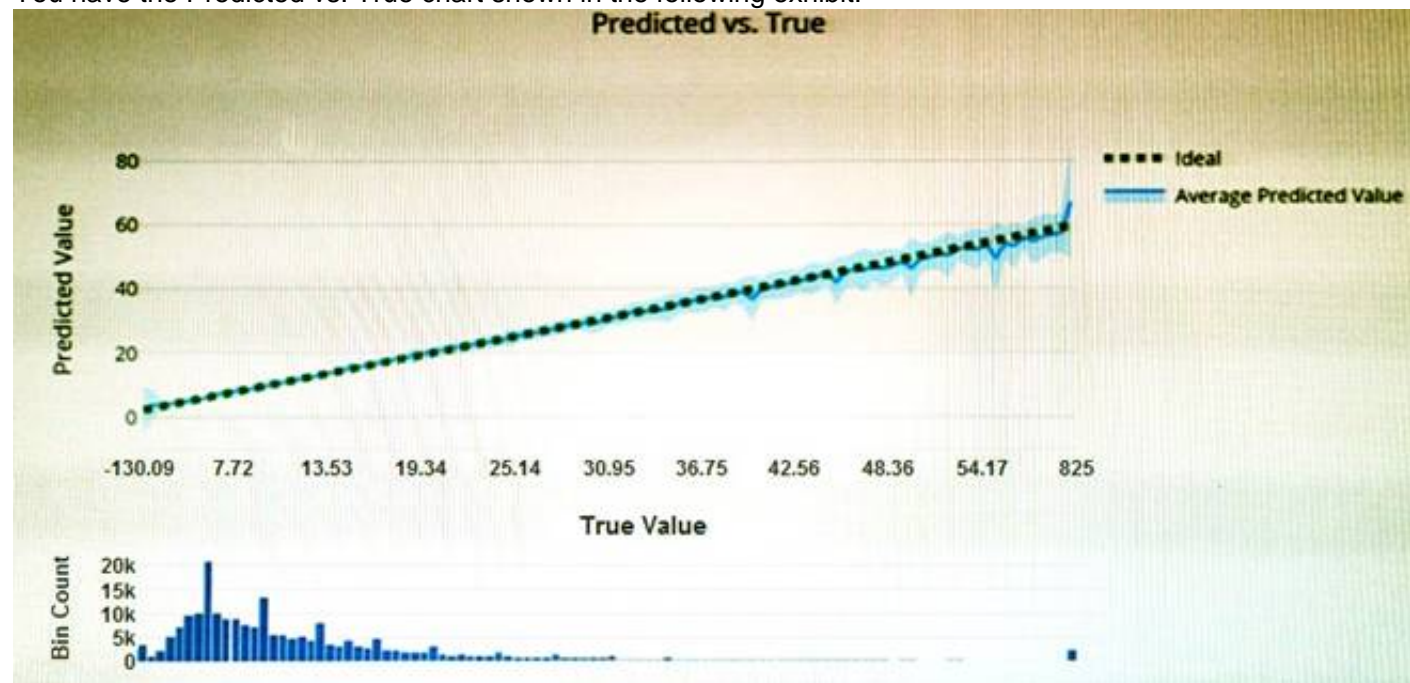
Box 3: No

Inclusiveness mandates that AI should consider all human races and experiences, and inclusive design practices can help developers to understand and address potential barriers that could unintentionally exclude people. Where possible, speech-to-text, text-to-speech, and visual recognition technology should be used to empower people with hearing, visual, and other impairments.

#### NEW QUESTION 180

- (Topic 2)

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



Which type of model is the chart used to evaluate?

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

**Answer: B**

#### Explanation:

What is a Predicted vs. True chart?

Predicted vs. True shows the relationship between a predicted value and its correlating true value for a regression problem. This graph can be used to measure performance of a model as the closer to the  $y=x$  line the predicted values are, the better the accuracy of a predictive model.

Reference:

<https://docs.microsoft.com/en-us/azure/machine-learning/how-to-understand-automated-m>

#### NEW QUESTION 184

- (Topic 1)

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

**Answer: B**

#### Explanation:

Inclusiveness: At Microsoft, we firmly believe everyone should benefit from intelligent technology, meaning it must incorporate and address a broad range of human needs and experiences. For the 1 billion people with disabilities around the world, AI technologies can be a game-changer.

Reference:

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

#### NEW QUESTION 185

- (Topic 1)

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

**Answer: A**

#### Explanation:

Achieving transparency helps the team to understand the data and algorithms used to train the model, what transformation logic was applied to the data, the final model generated, and its associated assets. This information offers insights about how the model was created, which allows it to be reproduced in a transparent way.

Reference:

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

<https://docs.microsoft.com/en-us/azure/cloud-adoption-framework/strategy/responsible-ai>

NEW QUESTION 186

- (Topic 1)  
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.

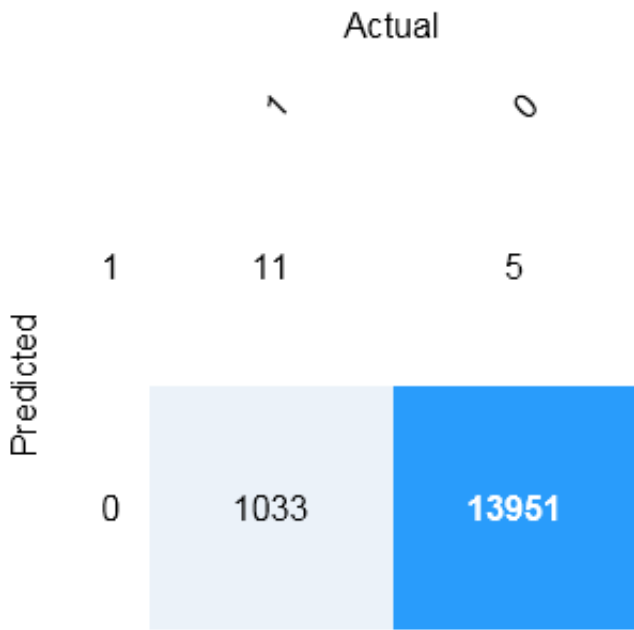
Answer: B

Explanation:

Model Explain Ability.  
Most businesses run on trust and being able to open the ML “black box” helps build transparency and trust. In heavily regulated industries like healthcare and banking, it is critical to comply with regulations and best practices. One key aspect of this is understanding the relationship between input variables (features) and model output. Knowing both the magnitude and direction of the impact each feature (feature importance) has on the predicted value helps better understand and explain the model. With model explain ability, we enable you to understand feature importance as part of automated ML runs.  
Reference:  
<https://azure.microsoft.com/en-us/blog/new-automated-machine-learning-capabilities-in-azure-machine-learning-service/>

NEW QUESTION 189

HOTSPOT - (Topic 1)  
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.

Answer Area

There are [answer choice] correctly predicted positives.

There are [answer choice] false negatives.

- A. Mastered
- B. Not Mastered

Answer: A

Explanation:

Box 1: 11

	Predicted	
	Positive	Negative
Actual True	TP	FN
Actual False	FP	TN

TP = True Positive.

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

Box 2: 1,033

FN = False Negative

NEW QUESTION 194

DRAG DROP - (Topic 1)

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.

**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

- A. Mastered
- B. Not Mastered

Answer: A

Explanation:

Box 3: Natural language processing

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

NEW QUESTION 198

HOTSPOT - (Topic 1)

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

When developing an AI system for self-driving cars, the Microsoft for responsible AI should be applied to ensure consistent operation system during unexpected circumstances.

inclusiveness

accountability

reliability and safety

fairness

principle of the

- A. Mastered
- B. Not Mastered

Answer: A

Explanation:

Reliability and safety: To build trust, it's critical that AI systems operate reliably, safely, and consistently under normal circumstances and in unexpected conditions. These systems should be able to operate as they were originally designed, respond safely to unanticipated conditions, and resist harmful manipulation.

NEW QUESTION 200

- (Topic 1)

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.

**Answer:** C

**Explanation:**

Reference:

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

**NEW QUESTION 204**

- (Topic 1)

A company employs a team of customer service agents to provide telephone and email support to customers.

The company develops a webchat bot to provide automated answers to common customer queries.

Which business benefit should the company expect as a result of creating the webchat bot solution?

A. increased sales

B. a reduced workload for the customer service agents

C. improved product reliability

**Answer:** B

**NEW QUESTION 209**

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