



Microsoft

Exam Questions AI-900

Microsoft Azure AI Fundamentals (beta)

NEW QUESTION 1

FILL IN THE BLANK - (Topic 5)

To complete the sentence, select the appropriate option in the answer area. Computer vision capabilities can be Deployed to.....

- A. Mastered
- B. Not Mastered

Answer: A

Explanation:

Computer vision capabilities can be deployed to

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)

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.

- A. Mastered
- B. Not Mastered

Answer: A

Explanation:

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.

NEW QUESTION 4

- (Topic 5)

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

Answer: B

Explanation:

Reference:

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

NEW QUESTION 5

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

- A. Mastered
- B. Not Mastered

Answer: A

Explanation:

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

NEW QUESTION 6

HOTSPOT - (Topic 5)

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

a privacy and security

an inclusiveness

a privacy and security

a reliability and safety

a transparency

 principle for responsible AI.

- A. Mastered
- B. Not Mastered

Answer: A

Explanation:

Answer Area

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

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

NEW QUESTION 7

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

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

Answer: B

NEW QUESTION 10

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
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"/>

- A. Mastered
B. Not Mastered

Answer: A

Explanation:

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

NEW QUESTION 10

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

Answer Area

Creating a text transcript of a voice recording is an example of

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

Answer selections

- A. Mastered
B. Not Mastered

Answer: A

Explanation:

Answer Area

Creating a text transcript of a voice recording is an example of

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

Answer selections

NEW QUESTION 12

DRAG DROP - (Topic 5)
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.

- 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 15

- (Topic 5)
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. Custom Vision classification
- D. Computer Vision Image Analysis

Answer: B

NEW QUESTION 18

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
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 conversational AI.	<input type="radio"/>	<input type="radio"/>

- A. Mastered
- B. Not Mastered

Answer: A

Explanation:

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 checked="" type="radio"/>	<input type="radio"/>
An interactive webchat feature on a company website can be implemented by using Azure Bot Service.	<input checked="" type="radio"/>	<input type="radio"/>
Automatically generating captions for pre-recorded videos is an example of conversational AI.	<input checked="" type="radio"/>	<input type="radio"/>

NEW QUESTION 20

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 23

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

- A. Mastered
- B. Not Mastered

Answer: A

Explanation:

Statements	Yes	No
The following service call will accept English text as an input and output Italian and French text. /translate?from=it&to=fr&ton=en	<input checked="" type="radio"/>	<input type="radio"/>
The following service call will accept English text as an input and output Italian and French text. /translate?from=en&to=fr&to=it	<input checked="" type="radio"/>	<input type="radio"/>
The Translator service can be used to translate documents from English to French.	<input checked="" type="radio"/>	<input type="radio"/>

NEW QUESTION 28

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 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"/>

- A. Mastered
- B. Not Mastered

Answer: A

NEW QUESTION 31

DRAG DROP - (Topic 5)

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
<div>Custom Vision</div>	<div></div> Identify objects in an image.
<div>Face</div>	<div></div> Automatically import data from an invoice to a database.
<div>Form Recognizer</div>	<div></div> Identify people in an image.

- A. Mastered
- B. Not Mastered

Answer: A

NEW QUESTION 36

HOTSPOT - (Topic 5)

Select the answer that correctly completes the sentence.

Answer Area

Regression

Classification

Clustering

Regression

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

- A. Mastered
- B. Not Mastered

Answer: A

Explanation:

Answer Area

Regression

Classification

Clustering

Regression

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

NEW QUESTION 40

- (Topic 5)

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

Answer: A

NEW QUESTION 42

HOTSPOT - (Topic 5)

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.

- A. Mastered
- B. Not Mastered

Answer: A

Explanation:

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.

NEW QUESTION 44

HOTSPOT - (Topic 5)

Select the answer that correctly completes the sentence.

Answer Area

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

labels.

features.

functions.

labels.

instances.

- A. Mastered
- B. Not Mastered

Answer: A

Explanation:

Answer Area

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

labels.

features.

functions.

labels.

instances.

NEW QUESTION 48

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

image classification.

object detection.

optical character recognition (OCR).

facial detection.

- 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

image classification.

object detection.

optical character recognition (OCR).

facial detection.

NEW QUESTION 51

- (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 56

- (Topic 5)

You are building a knowledge base by using QnA Maker. Which file format can you use to populate the knowledge base?

- A. PDF
- B. PPTX
- C. XML
- D. ZIP

Answer: A

Explanation:

Reference:

<https://docs.microsoft.com/en-us/azure/cognitive-services/qnamaker/concepts/data-sources-and-content>

NEW QUESTION 61

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 66

- (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 76

- (Topic 5)
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

Answer: D

Explanation:

Reference:
<https://docs.microsoft.com/en-us/azure/cognitive-services/qnamaker/how-to/improve-knowledge-base>

NEW QUESTION 80

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
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"/>

- A. Mastered
- B. Not Mastered

Answer: A

Explanation:

Answer Area

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

NEW QUESTION 82

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
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"/>

- A. Mastered
- B. Not Mastered

Answer: A

Explanation:

Answer Area

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

NEW QUESTION 86

- (Topic 4)
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

Answer: BD

Explanation:

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

NEW QUESTION 88

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.

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

- A. Mastered
B. Not Mastered

Answer: A

Explanation:

The translator service provides multi-language support for text translation, transliteration, language detection, and dictionaries. Speech-to-Text, also known as automatic speech recognition (ASR), is a feature of Speech Services that provides transcription.

NEW QUESTION 92

- (Topic 4)

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

Answer: B

Explanation:

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

Reference:

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

NEW QUESTION 97

- (Topic 4)

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

Answer: D

Explanation:

Reference:

<https://docs.microsoft.com/en-us/azure/cognitive-services/qnamaker/how-to/chit-chat-knowledge-base?tabs=v1>

NEW QUESTION 100

DRAG DROP - (Topic 4)

Match the types of natural languages processing workloads to the appropriate scenarios.

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

NOTE: Each correct selection is worth one point.

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	Returns text translated to the specified target language
Sentiment analysis		
Natural language processing		
Translation		
Speech recognition and speech synthesis		

- A. Mastered
B. Not Mastered

Answer: A

Explanation:

Box 1: Entity recognition

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

Box 2: Sentiment analysis

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

Box 3: Translation

Using Microsoft's Translator text API

This versatile API from Microsoft can be used for the following: Translate text from one language to another.

Transliterate text from one script to another. Detecting language of the input text.

Find alternate translations to specific text. Determine the sentence length.

NEW QUESTION 101

- (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 103

- (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 107

- (Topic 3)

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.

Answer: BC

Explanation:

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

C: Computer Vision includes Optical Character Recognition (OCR) capabilities. You can use the new Read API to extract printed and handwritten text from images and documents.

Reference:

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

Detect faces in an image - Face API

Microsoft Azure provides multiple cognitive services that you can use to detect and analyze faces, including:

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

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

Face, which offers pre-built algorithms that can detect, recognize, and analyze faces. Recognize hand written text - Read API

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

NEW QUESTION 110

- (Topic 2)

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

Answer: C

Explanation:

A common way of evaluating a model is to divide the data into a training and test set by using Split Data, and then validate the model on the training data. Use the Split Data module to divide a dataset into two distinct sets. The studio currently supports training/validation data splits

Reference:

<https://docs.microsoft.com/en-us/azure/machine-learning/how-to-configure-cross-validation-data-splits2>

NEW QUESTION 115

HOTSPOT - (Topic 3)

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.

Answer Area

Statements	Yes	No
The Face service can be used to group all the employees who have similar facial characteristics.	<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"/>

- A. Mastered
- B. Not Mastered

Answer: A

Explanation:

Answer Area

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

NEW QUESTION 119

DRAG DROP - (Topic 3)

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.

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.

- A. Mastered
- B. Not Mastered

Answer: A

Explanation:

Box 1: Image classification
Image classification is a supervised learning problem: define a set of target classes (objects to identify in images), and train a model to recognize them using labeled example photos.

Box 2: Object detection
Object detection is a computer vision problem. While closely related to image classification, object detection performs image classification at a more granular scale. Object detection both locates and categorizes entities within images.

Box 3: Semantic Segmentation
Semantic segmentation achieves fine-grained inference by making dense predictions inferring labels for every pixel, so that each pixel is labeled with the class of its enclosing object ore region.

NEW QUESTION 124

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 129

- (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 133

HOTSPOT - (Topic 2)

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

Answer Area

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

▼
Custom Vision
Form Recognizer
Ink Recognizer
Text Analytics

service.

- A. Mastered
- B. Not Mastered

Answer: A

Explanation:

Accelerate your business processes by automating information extraction. Form Recognizer applies advanced machine learning to accurately extract text, key/value pairs, and tables from documents. With just a few samples, Form Recognizer tailors its understanding to your documents, both on-premises and in the cloud. Turn forms into usable data at a fraction of the time and cost, so you can focus more time acting on the information rather than compiling it.

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 141

- (Topic 2)

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

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

NOTE: Each correct selection is worth one point.

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

Answer: CD

Explanation:

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

NEW QUESTION 145

HOTSPOT - (Topic 2)

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

- A. Mastered
- B. Not Mastered

Answer: A

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

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

NEW QUESTION 147

HOTSPOT - (Topic 2)

To complete the sentence, select the appropriate option in the 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	

- A. Mastered
- B. Not Mastered

Answer: A

Explanation:

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

NEW QUESTION 151

- (Topic 1)
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.

Answer: B

Explanation:
<https://docs.microsoft.com/en-us/azure/machine-learning/algorithm-module-reference/split-data>

NEW QUESTION 155

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 156

- (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

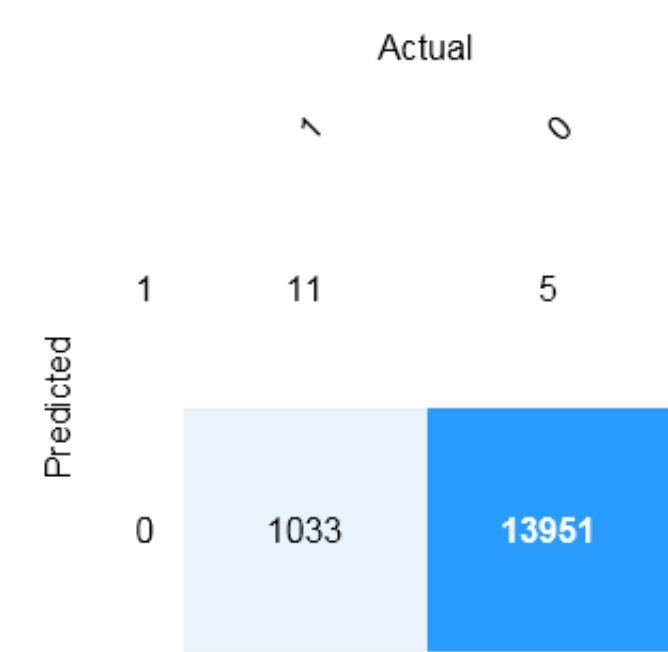
Answer: A

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 159

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 161

HOTSPOT - (Topic 1)

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

Answer Area

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

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

- A. Mastered
- B. Not Mastered

Answer: A

Explanation:

Reliability & Safety [https://en.wikipedia.org/wiki/Tay_\(bot\)](https://en.wikipedia.org/wiki/Tay_(bot))
“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. It’s also important to be able to verify that these systems are behaving as intended under actual operating conditions. How they behave and the variety of conditions they can handle reliably and safely largely reflects the range of situations and circumstances that developers anticipate during design and testing. We believe that rigorous testing is essential during system development and deployment to ensure AI systems can respond safely in unanticipated situations and edge cases, don’t have unexpected performance failures, and don’t evolve in ways that are inconsistent with original expectations”

NEW QUESTION 162

HOTSPOT - (Topic 1)
To complete the sentence, select the appropriate option in the answer area.

According to Microsoft’s principle of responsible AI,

- accountability
- fairness
- inclusiveness
- transparency

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

- A. Mastered
- B. Not Mastered

Answer: A

Explanation:

According to Microsoft’s principle of responsible AI,

- accountability
- fairness
- inclusiveness
- transparency

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

NEW QUESTION 165

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 167

- (Topic 1)

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

Answer: BC

Explanation:

Reference:

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

<https://docs.microsoft.com/en-us/learn/modules/responsible-ai-principles/3-implications-responsible-ai-practical>

NEW QUESTION 170

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