

AI-900^{Q&As}

Microsoft Azure AI Fundamentals

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QUESTION 1

DRAG DROP

Match the principles of responsible AI to appropriate requirements.

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

NOTE: Each correct selection is worth one point.

Select and Place:

Principles

- Fairness
- Privacy and security
- Reliability and safety
- Transparency

Answer Area



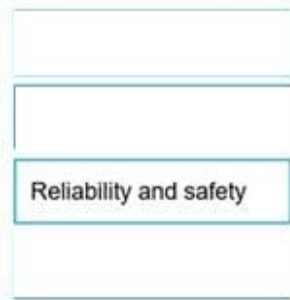
The system must not discriminate based on gender, race

Personal data must be visible only to approve

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

Correct Answer:

Principles



Answer Area

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

Reference: <https://docs.microsoft.com/en-us/azure/cloud-adoption-framework/innovate/best-practices/trusted-ai>
<https://docs.microsoft.com/en-us/learn/modules/responsible-ai-principles/4-guiding-principles>

QUESTION 2

You need to create a model that labels a collection of your personal digital photographs. Which Azure Cognitive Services service should you use?

- A. Form Recognizer
- B. Custom Vision
- C. Language
- D. Computer Vision

Correct Answer: D

Computer Vision, an AI service that analyzes content in images and video.

Extract rich information from images and video

Boost content discoverability, automate text extraction, analyze video in real time, and create products that more people can use by embedding cloud vision capabilities in your apps with Computer Vision, part of Azure Cognitive Services. Use

visual data processing to label content with objects and concepts, extract text, generate image descriptions, moderate content, and understand people's movement in physical spaces. No machine learning expertise is required.

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

QUESTION 3

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

Correct Answer: CD

QUESTION 4

HOTSPOT

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

Hot Area:

Answer Area

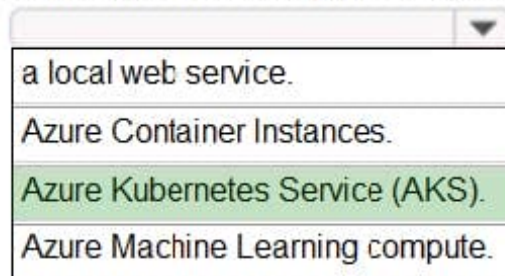
From Azure Machine Learning designer, to deploy a real-time inference pipeline as a service for others to consume, you must deploy the model to

<input type="text"/>
a local web service.
Azure Container Instances.
Azure Kubernetes Service (AKS).
Azure Machine Learning compute.

Correct Answer:

Answer Area

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



The screenshot shows a dropdown menu with the following options:

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

To perform real-time inferencing, you must deploy a pipeline as a real-time endpoint. Real-time endpoints must be deployed to an Azure Kubernetes Service cluster.

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

QUESTION 5

Your company wants to build a recycling machine for bottles. The recycling machine must automatically identify bottles of the correct shape and reject all other items. Which type of AI workload should the company use?

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

Correct Answer: C

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

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

QUESTION 6

DRAG DROP

Match the facial recognition tasks to the appropriate questions.

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

NOTE: Each correct selection is worth one point.

Select and Place:

Tasks

- grouping
- identification
- similarity
- verification

Answer Area

- Task Do two images of a face belong to the same person?
- Task Does this person look like other people?
- Task Do all the faces belong together?
- Task Who is this person in this group of people?

Correct Answer:

Tasks

-
-
-
-

Answer Area

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

Box 1: verification Face verification: Check the likelihood that two faces belong to the same person and receive a confidence score. Box 2: similarity

Box 3: Grouping Box 4: identification Face detection: Detect one or more human faces along with attributes such as: age, emotion, pose, smile, and facial hair, including 27 landmarks for each face in the image.

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

QUESTION 7

HOTSPOT

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

Hot Area:

Answer Area

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

	▼
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 principle for responsible AI.

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

Correct Answer:

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

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

QUESTION 8

What are three Microsoft guiding principles for responsible AI? Each correct answer presents a complete solution.
NOTE: Each correct selection is worth one point.

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

Correct Answer: CDF

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

QUESTION 9

DRAG DROP

You plan to deploy an Azure Machine Learning model by using the Machine Learning designer.

Which four actions should you perform in sequence? To answer, move the appropriate actions from the list of actions to the answer area and arrange them in the correct order.

Select and Place:

Actions

Train the model.

Split the data randomly into training data and validation data.

Evaluate the model against the original dataset.

Evaluate the model against the validation dataset.

Ingest and prepare a dataset.

Answer area

Correct Answer:

Actions

Evaluate the model against the original dataset.

Answer area

Ingest and prepare a dataset.

Split the data randomly into training data and validation data.

Train the model.

Evaluate the model against the validation dataset.

QUESTION 10

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

- A. Speech
- B. Language
- C. Translator
- D. Personalizer

Correct Answer: C

Translator, an AI service for real-time document and text translation.

Translate text instantly or in batches across more than 100 languages, powered by the latest innovations in machine translation. Support a wide range of use cases, such as translation for call centers, multilingual conversational agents, or inapp communication.

Reference: <https://azure.microsoft.com/en-us/services/cognitive-services/translator/4>

QUESTION 11

HOTSPOT

Select the answer that correctly completes the sentence.

Hot Area:



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

Correct Answer:



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

Box: Regression

You can create a regression model with Azure Machine Learning designer.

Regression is a supervised machine learning technique used to predict numeric values.

Reference:

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

QUESTION 12

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

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

NOTE: Each correct selection is worth one point.

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

Correct Answer: ACE

Automatic extraction

Extract question-answer pairs from semi-structured content, including FAQ pages, support websites, excel files, SharePoint documents, product manuals and policies.

Reference:

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

QUESTION 13

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

Select the answer that correctly completes the sentence.

- A. dataset
- B. labels
- C. variables

Correct Answer: B

In machine learning, data labeling is the process of identifying raw data (images, text files, videos, etc.) and adding one or more meaningful and informative labels to provide context so that a machine learning model can learn from it.

Reference: <https://docs.microsoft.com/en-us/azure/machine-learning/how-to-create-image-labeling-projects>

QUESTION 14

HOTSPOT

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

NOTE: Each correct selection is worth one point.

Hot Area:

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

Correct Answer:

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

Box 1: Yes

Image classification is a popular area of artificial intelligence. One application of image classification that's already being used in industry is the detection of quality issues on assembly lines during manufacturing. In a typical production line,

components travel down the assembly line from one station to another, at the end of which an inspector steps in to look for problems—a manual and error-prone process. AI-driven image classification reduces human effort and automatically

classifies images as pass or fail. This improves not only the efficiency of the human operators in the validation process, but also the quality of the overall manufacturing process.

Box 2: Yes

Object detection is similar to tagging, but the API returns the bounding box coordinates (in pixels) for each object found in the image. For example, if an image contains a dog, cat and person, the Detect operation will list those objects 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 object in an image.

Box 3: No

Reference: <https://azure.microsoft.com/en-us/use-cases/defect-detection-with-image-analysis/>

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

QUESTION 15

In which two scenarios can you use the Form Recognizer service? Each correct answer presents a complete solution.
NOTE: Each correct selection is worth one point.

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

Correct Answer: AC

Reference: <https://docs.microsoft.com/en-us/azure/applied-ai-services/form-recognizer/overview?tabs=v2-1>

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