

➤ **Vendor: Microsoft**➤ **Exam Code: AI-900**➤ **Exam Name: Microsoft Azure AI Fundamentals**➤ **New Updated Questions from [Braindump2go](#) (Updated in [Dec./2020](#))****Visit Braindump2go and Download Full Version AI-900 Exam Dumps****QUESTION 55**

Hotspot Question

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

Statement	Yes	No
According to the Transparency principle, AI systems should treat all people fairly.	<input type="checkbox"/>	<input type="checkbox"/>
According to the Reliability & Safety principle, AI systems should be secure and respect privacy.	<input type="checkbox"/>	<input type="checkbox"/>
According to the Accountability principle, people should be accountable for AI systems.	<input type="checkbox"/>	<input type="checkbox"/>

Answer:

Statement	Yes	No
According to the Transparency principle, AI systems should treat all people fairly.	<input type="checkbox"/>	<input checked="" type="checkbox"/>
According to the Reliability & Safety principle, AI systems should be secure and respect privacy.	<input type="checkbox"/>	<input checked="" type="checkbox"/>
According to the Accountability principle, people should be accountable for AI systems.	<input checked="" type="checkbox"/>	<input type="checkbox"/>

Explanation:

The Transparency principle does not deal with fairness. It indicates that AI systems should be understandable. System users should have a clear understanding of how an AI system operates, what data it utilizes, what the system's capabilities and limitations are, and so on. The guiding principle concerned with AI systems treating all people fairly is Fairness.

The Reliability & Safety principle indicates that AI systems should perform reliably and safely. This requires proper testing and verification of an AI system's functionality to ensure that it works as expected and to eliminate potential risk to human life. The guiding principle concerned with AI systems being secure and respecting privacy is Privacy & Security.

People should be accountable for AI systems according to the Accountability principle. AI systems are built by people (designers and developers) and they should be responsible for what AI systems do. It requires people to follow governance and organizational policies to ensure that the solution meets clearly defined ethical and legal standards.

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QUESTION 56

Drag and Drop Question

Match the computer vision type to the scenario. To answer, drag the appropriate type to each scenario. A type may be used once, more than once, or not at all.

Confirm that a driver is looking at the road whilst driving a vehicle.	
Perform medical diagnosis on MRI scans.	
Find people wearing face masks in a room.	

Face detection	Image classification	Object detection	Optical character recognition
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Answer:

Confirm that a driver is looking at the road whilst driving a vehicle.	Face detection
Perform medical diagnosis on MRI scans.	Image classification
Find people wearing face masks in a room.	Object detection

			Optical character recognition
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Explanation:

Face detection can be used to monitor a driver's face. The angle of the head can be determined and used to tell if the driver is looking at the road ahead, or looking down at a mobile device, or if the driver is showing signs of tiredness. Image classification can be used to evaluate scanned images from MRI machines to classify the images against trained images of known medical conditions.

Object detection can be used to detect objects in an image. You can train Computer Vision to detect face masks. Face detection does not include the ability to recognize that a face is covered with a mask. Masks may actually prevent faces from being recognized.

Optical character recognition (OCR) extracts text from an image. OCR can recognize individual shapes as letters, numerals, punctuation, and other elements of text.

QUESTION 57

Hotspot Question

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

Statement	Yes	No
A bot created with the Azure Bot Framework SDK can be integrated with Language Understanding (LUIS).	<input type="radio"/>	<input type="radio"/>
A bot created with the Azure Bot Framework SDK can be integrated with QnA Maker.	<input type="radio"/>	<input type="radio"/>
A bot created with the Azure Bot Framework SDK can be integrated with Power Virtual Agents.	<input type="radio"/>	<input type="radio"/>

Answer:

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Statement	Yes	No
A bot created with the Azure Bot Framework SDK can be integrated with Language Understanding (LUIS).	<input checked="" type="radio"/>	<input type="radio"/>
A bot created with the Azure Bot Framework SDK can be integrated with QnA Maker.	<input checked="" type="radio"/>	<input type="radio"/>
A bot created with the Azure Bot Framework SDK can be integrated with Power Virtual Agents.	<input checked="" type="radio"/>	<input type="radio"/>

Explanation:

A bot created with the Azure Bot Framework SDK can be integrated with LUIS. You can add LUIS to your bot when you create the bot, or add LUIS later. You use the Dispatch tool to route messages from the bot to LUIS.

A bot created with the Azure Bot Framework SDK can be integrated with QnA Maker knowledge bases. You use the Dispatch tool to route messages from the bot to QnA Maker. Your bot can choose which has the best response for the user.

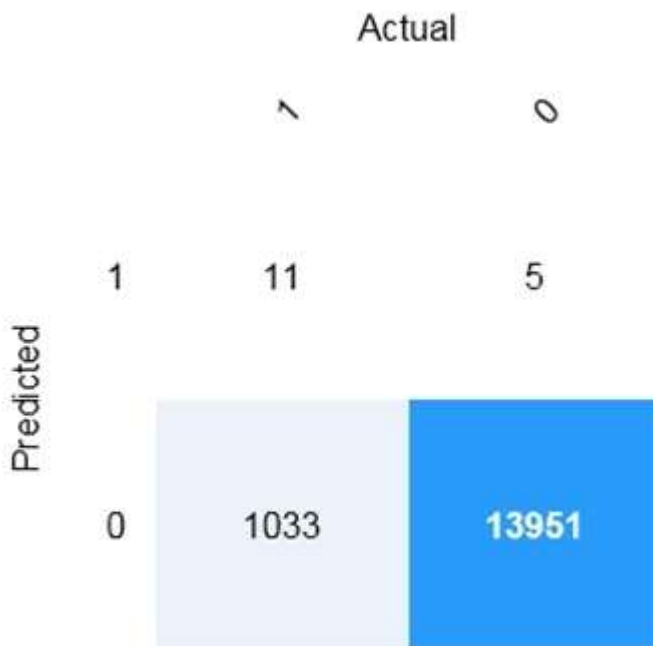
A bot created with the Azure Bot Framework SDK can be integrated with bots created using Power Virtual Agents. You use the Dispatch tool to configure your bot to work with a Power Virtual Agent bot.

QUESTION 58

Hotspot Question

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.

5
11
1,033
13,951

There are [answer choice] false negatives.

5
11
1,033
13,951

Answer:

Answer Area

There are [answer choice] correctly predicted positives.

5
11
1,033
13,951

There are [answer choice] false negatives.

5
11
1,033
13,951

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

Reference:

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

QUESTION 59

Hotspot Question

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

Answer:

Answer Area

Statements	Yes	No
Forecasting housing prices based on historical data is an example of anomaly detection.	<input type="radio"/>	<input checked="" type="radio"/>
Identifying suspicious sign-ins by looking for deviations from usual patterns is an example of anomaly detection.	<input checked="" type="radio"/>	<input type="radio"/>
Predicting whether a patient will develop diabetes based on the patient's medical history is an example of anomaly detection.	<input checked="" type="radio"/>	<input type="radio"/>

Explanation:

Anomaly detection encompasses many important tasks in machine learning:

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Identifying transactions that are potentially fraudulent. Learning patterns that indicate that a network intrusion has occurred.

Finding abnormal clusters of patients.

Checking values entered into a system.

Reference:

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

QUESTION 60

Hotspot Question

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 |

Answer:

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 |

Explanation:

Privacy and security.

As AI becomes more prevalent, protecting privacy and securing important personal and business information is becoming more critical and complex. With AI, privacy and data security issues require especially close attention because access to data is essential for AI systems to make accurate and informed predictions and decisions about people. AI systems must comply with privacy laws that require transparency about the collection, use, and storage of data and mandate that consumers have appropriate controls to choose how their data is used. At Microsoft, we are continuing to research privacy and security breakthroughs (see next unit) and invest in robust compliance processes to ensure that data collected and used by our AI systems is handled responsibly.

Reference:

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

QUESTION 61

Drag and Drop Question

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

Answer:
Workloads Types

Anomaly detection

Knowledge mining

Answer Area

Conversational AI

An automated chat to answer questions about refunds and exchange

Computer vision

Determining whether a photo contains a person

Natural language processing

Determining whether a review is positive or negative

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.

Reference:

<https://docs.microsoft.com/en-us/azure/architecture/data-guide/technology-choices/natural-language-processing>
QUESTION 62

Drag and Drop Question

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

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

NOTE: Each correct selection is worth one point.

Principles

Accountability

Fairness

Inclusiveness

Privacy and security

Reliability and safety

Answer Area

Principle

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

Principle

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

Principle

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

Answer:

Principles

Accountability

Inclusiveness

Answer Area

Reliability and safety

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

Fairness

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

Privacy and security

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

Explanation:

Box 1: Reliability and safety

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

Box 2: Fairness

Fairness: AI systems should treat everyone fairly and avoid affecting similarly situated groups of people in different ways. For example, when AI systems provide guidance on medical treatment, loan applications, or employment, they should make the same recommendations to everyone with similar symptoms, financial circumstances, or professional qualifications.

We believe that mitigating bias starts with people understanding the implications and limitations of AI predictions and recommendations. Ultimately, people should supplement AI decisions with sound human judgment and be held accountable for consequential decisions that affect others.

Box 3: Privacy and security

As AI becomes more prevalent, protecting privacy and securing important personal and business information is becoming more critical and complex. With AI, privacy and data security issues require especially close attention because access to data is essential for AI systems to make accurate and informed predictions and decisions about people. AI systems must comply with privacy laws that require transparency about the collection, use, and storage of data and mandate that consumers have appropriate controls to choose how their data is used

Reference:

<https://docs.microsoft.com/en-us/learn/modules/responsible-ai-principles/4-guiding-principles>**QUESTION 63**

Hotspot Question

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

Answer:

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

inclusiveness

accountability

reliability and safety

fairness

principle of the

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.

Reference:

<https://docs.microsoft.com/en-us/learn/modules/responsible-ai-principles/4-guiding-principles>[AI-900 Exam Dumps](#) [AI-900 Exam Questions](#) [AI-900 PDF Dumps](#) [AI-900 VCE Dumps](#)<https://www.braindump2go.com/ai-900.html>

QUESTION 64

Drag and Drop Question

Match the types of AI workloads to the appropriate scenarios.

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

NOTE: Each correct selection is worth one point.

Workload Types

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

Answer Area

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

Answer:

Workload Types

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

Answer Area

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

Explanation:

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

QUESTION 65

Hotspot Question

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 recognizer (OCR).
semantic segmentation.

Answer:

Answer Area

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

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

Explanation:

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

QUESTION 66

Hotspot Question

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

Answer Area

- | | |
|---------------------|--|
| | is used to generate additional features. |
| Feature engineering | |
| Feature selection | |
| Model evaluation | |
| Model training | |

Answer:

Answer Area

- | | |
|---------------------|--|
| | is used to generate additional features. |
| Feature engineering | |
| Feature selection | |
| Model evaluation | |
| Model training | |

Explanation:

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