



## Microsoft

### Exam Questions AI-900

Microsoft Azure AI Fundamentals (beta)

**NEW QUESTION 1**

- (Exam 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 2**

- (Exam 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:**

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>

**NEW QUESTION 3**

- (Exam 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.

**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"/>

- A. Mastered
- B. Not Mastered

**Answer: A**

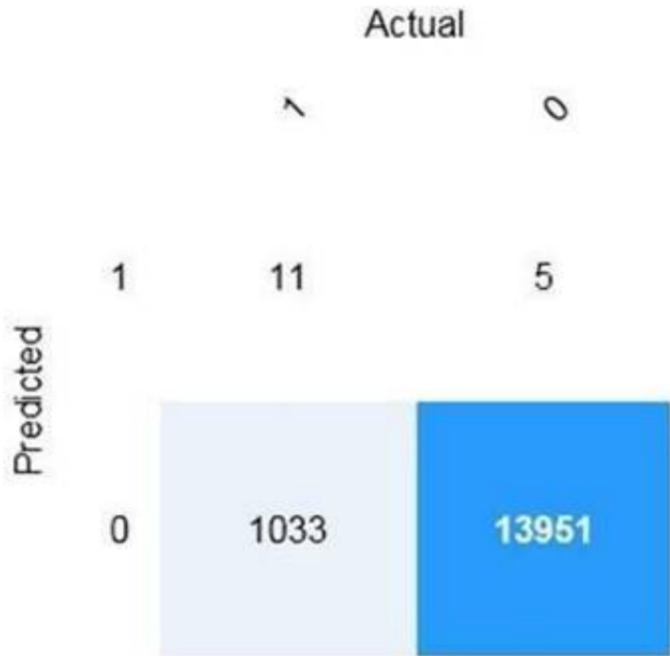
**Explanation:**

Box 1: No  
 Box 2: Yes  
 Box 3: Yes

Anomaly detection encompasses many important tasks in machine learning: 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>

**NEW QUESTION 4**

- (Exam 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.

5  
11  
1,033  
13,951

There are [answer choice] false negatives.

5  
11  
1,033  
13,951

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

**NEW QUESTION 5**

- (Exam 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.

**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.

- A. Mastered
- B. Not Mastered

**Answer:** A

**Explanation:**

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

**NEW QUESTION 6**

- (Exam Topic 2)

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

NOTE: Each correct selection is worth one point.

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

**Answer:** AD

**Explanation:**

You can drag-and-drop datasets and modules onto the canvas. Reference:  
<https://docs.microsoft.com/en-us/azure/machine-learning/concept-designer>

**NEW QUESTION 7**

- (Exam Topic 2)

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

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

Which two fields should you use as features? Each correct answer presents a complete solution. NOTE: Each correct selection is worth one point.

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

**Answer:** AC

**Explanation:**

First Name, Last Name, Age and Education Level are features. Income range is a label (what you want to predict). First Name and Last Name are irrelevant in that they have no bearing on income. Age and Education level are the features you should use.

**NEW QUESTION 8**

- (Exam Topic 2)

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

### Answer Area

A banking system that predicts whether a loan will be repaid is an example of the \_\_\_\_\_ type of machine learning.

- classification
- regression
- clustering

- A. Mastered
- B. Not Mastered

**Answer:** A

**Explanation:**

In the most basic sense, regression refers to prediction of a numeric target.

Example: Regression Model: A Boosted Decision Tree algorithm was used to create and train the model for predicting the repayment rate.

Reference:

<https://gallery.azure.ai/Experiment/Student-Loan-Repayment-Rate-Prediction>

### NEW QUESTION 10

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