

# AI-900<sup>Q&As</sup>

Microsoft Azure Al Fundamentals

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#### **QUESTION 1**

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 a thumbs 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.

Correct Answer: D

#### **QUESTION 2**

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

Correct Answer: A

Sentiment analysis is analytical technique that uses statistics, natural language processing, and machine learning to determine the emotional meaning of communications. Companies use sentiment analysis to evaluate customer messages, call center interactions, online reviews, social media posts, and other content.

Reference: https://www.cio.com/article/189218/what-is-sentiment-analysis-using-nlp-and-ml-to-extract-meaning.html

#### **QUESTION 3**

**HOTSPOT** 

Select the answer that correctly completes the sentence.

Hot Area:

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# Answer Area



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

#### Correct Answer:

	-
Image classification	
Image description	
Object detection	
Optical character recognition (OCR)	

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

Box: Object detection 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.

The object detection function 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 object detection function only finds objects and living things, while the tag function can also include contextual terms like "indoor", which can\\'t be localized with bounding boxes.

#### Incorrect:

\* Image classification Classification and object detection Custom Vision functionality can be divided into two features. Image classification applies one or more labels to an entire image. Object detection is similar, but it returns the coordinates in the image where the applied label(s) can be found.

Reference: https://learn.microsoft.com/en-us/azure/cognitive-services/computer-vision/concept-object-detection https://learn.microsoft.com/en-us/azure/cognitive-services/custom-vision-service/overview

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#### **QUESTION 4**

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

Correct Answer: C

Reference:

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

Al systems should empower everyone and engage people. Al 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

#### **QUESTION 5**

**HOTSPOT** 

Select the answer that correctly completes the sentence.

Hot Area:

# Answer Area A banking system that predicts whether a loan will be repaid is an example of the clustering regression classification

Correct Answer:



# Answer Area A banking system that predicts whether a loan will be repaid is an example of the type of machine learning. clustering regression classification

Box 1: Regression

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

Scenarios for regression machine learning models

Regression machine learning models are used in many industries. A few scenarios are:

Using characteristics of houses, such as square footage and number of rooms, to predict home prices.

Using characteristics of farm conditions, such as weather and soil quality, to predict crop yield.

Using characteristics of a past campaign, such as advertising logs, to predict future advertisement clicks.

Note: Loan chargeoff prediction with SQL Server, example.

#### Solution details

A charged off loan is a loan that is declared by a creditor (usually a lending institution) that an amount of debt is unlikely to be collected, usually when the loan repayment is severely delinquent by the debtor. Given that high chargeoff has a

negative impact on lending institutions' year-end financials, lending institutions often monitor loan chargeoff risk very closely to prevent loans from getting charged-off.

There are multiple benefits for lending institutions to equip with loan chargeoff prediction data. Charging off a loan is the last resort that the bank will do on a severely delinquent loan, with the prediction data at hand, the loan officer could offer

personalized incentives like lower interest rate or longer repayment period to help customers to keep making loan payments and thus prevent the loan of getting charged off. To get to this type of prediction data, often credit unions or banks

manually handcraft the data based on customers\\' past payment history and performed simple statistical regression analysis.

Reference: https://learn.microsoft.com/en-us/training/modules/create-regression-model-azure-machine-learningdesigner/2-regression-scenarios

#### **QUESTION 6**

**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:

#### An

Answer Area		
Statements	Yes	No
The Custom Vision service can be used to detect objects in an image.	0	0
The Custom Vision service requires that you provide your own data to train the model.	0	0
The Custom Vision service can be used to analyze video files.	0	0
Correct Answer:		
Answer Area		
Statements	Yes	No
The Custom Vision service can be used to detect objects in an image.	0	0
The Custom Vision service requires that you provide your own data to train the model.	0	0

Box 1: Yes

Custom Vision functionality can be divided into two features. Image classification applies one or more labels to an image. Object detection is similar, but it also returns the coordinates in the image where the applied label(s) can be found.

The Custom Vision service can be used to analyze video files.

Box 2: Yes

The Custom Vision service uses a machine learning algorithm to analyze images. You, the developer, submit groups of images that feature and lack the characteristics in question. You label the images yourself at the time of submission.



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Then, the algorithm trains to this data and calculates its own accuracy by testing itself on those same images. Box 3: No Custom Vision service can be used only on graphic files. Reference: https://docs.microsoft.com/en-us/azure/cognitive-services/Custom-Vision-Service/overview **QUESTION 7** You are evaluating whether to use a basic workspace or an enterprise workspace in Azure Machine Learning. What are two tasks that require an enterprise workspace? Each correct answer presents a complete solution. NOTE: Each correct selection is worth one point. A. Use a graphical user interface (GUI) to run automated machine learning experiments. B. Create a compute instance to use as a workstation. C. Use a graphical user interface (GUI) to define and run machine learning experiments from Azure Machine Learning designer. D. Create a dataset from a comma-separated value (CSV) file. Correct Answer: AC Note: Enterprise workspaces are no longer available as of September 2020. The basic workspace now has all the functionality of the enterprise workspace. Reference: https://www.azure.cn/en-us/pricing/details/machine-learning/ https://docs.microsoft.com/en-us/azure/machine-learning/concept-workspace **QUESTION 8** A historian can use to digitize newspaper articles. Select the answer that correctly completes the sentence. A. Object detection B. Facial recognition C. Image classification D. Optical character recognition (OCR)

Correct Answer: D

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#### **QUESTION 9**

Which metric can you use to evaluate a classification model?

- A. true positive rate
- B. mean absolute error (MAE)
- C. coefficient of determination (R2)
- D. root mean squared error (RMSE)

Correct Answer: A

What does a good model look like?

An ROC curve that approaches the top left corner with 100% true positive rate and 0% false positive rate will be the best model. A random model would display as a flat line from the bottom left to the top right corner. Worse than random

would dip below the y=x line.

Reference:

https://docs.microsoft.com/en-us/azure/machine-learning/how-to-understand-automated-ml#classification

#### **QUESTION 10**

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

Correct Answer: C

To train the model, we will create Azure Machine Learning Compute resource.

Reference: https://github.com/solliancenet/azure-machine-learning-quickstarts/blob/master/aml-visual-interface/README.md

#### **QUESTION 11**

**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 selec	etion 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	
Reliability and safety	
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



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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 12**

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)

Correct Answer: C

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

#### **QUESTION 13**

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 valida	tion 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 th	e model against the original dataset.
Answer ar	ea
	rea prepare a dataset.
Ingest and	
Ingest and	prepare a dataset.  Ita randomly into training data and validation data.

#### **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:

Answer Area		
Statements	Yes	No
You can use Language Service's question answering to query an Azure SQL database.	0	0
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.	0	0
Language Service's question answering can determine the intent of a user utterance.	0	0

Correct Answer:

Answer Area		
Statements	Yes	No
You can use Language Service's question answering to query an Azure SQL database.	0	0
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.	0	0
Language Service's question answering can determine the intent of a user utterance.	0	0

Box 1: No

Box 2: Yes

Create a conversational question-and-answer layer over your existing data with question answering, an Azure Cognitive Service for Language feature. Build a knowledge base by adding unstructured documents or extracting questions and

answers from your semi-structured content, including FAQ, manuals, and documents. Get the best answers from the questions and answers in your knowledge base automatically. Your knowledge base gets smarter, too, as it continually

learns from user behavior.

Box 3: No

For Intent recognition use the Speech and Language Understanding (LUIS) services, which enables real-time transcription of audio streams into text, while identifying intent and entities.

Note: Question answering provides cloud-based Natural Language Processing (NLP) that allows you to create a natural conversational layer over your data. It is used to find the most appropriate answer for any input from your custom

knowledge base (KB) of information.



#### **QUESTION 15**

**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:

Answer Area		
Statements	Yes	No
For a regression model, labels must be numeric.	0	0
For a clustering model, labels must be used.	0	0
For a classification model, labels must be numeric.	0	0

Correct Answer:

Answer Area		
Statements	Yes	No
For a regression model, labels must be numeric.	0	0
For a clustering model, labels must be used.	0	0
For a classification model, labels must be numeric.	0	0

Box 1: Yes



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For regression problems, the label column must contain numeric data that represents the response variable. Ideally the numeric data represents a continuous scale.

Box 2: No

K-Means Clustering

Because the K-means algorithm is an unsupervised learning method, a label column is optional.

If your data includes a label, you can use the label values to guide selection of the clusters and optimize the model.

If your data has no label, the algorithm creates clusters representing possible categories, based solely on the data.

Box 3: No

For classification problems, the label column must contain either categorical values or discrete values. Some examples might be a yes/no rating, a disease classification code or name, or an income group. If you pick a noncategorical column,

the component will return an error during training.

Reference: https://docs.microsoft.com/en-us/azure/machine-learning/component-reference/train-model https://docs.microsoft.com/en-us/azure/machine-learning/component-reference/k-means-clustering

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