AI-900^{Q&As}

Microsoft Azure AI Fundamentals

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QUESTION 1

DRAG DROP

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.

Select and Place:

Learning Types	Answer Area	
Classification	Learning Type	Predict how many minutes late a flight will arrive basen on the amount of snowfall at an airpoint.
Clustering	Learning Type	Segment customers into different groups to support a marketing department.
Regression	Learning Type	Predict whether a student will complete a university course.

Correct Answer:

Learning Types	Answer Area	
	Regression	Predict how many minutes late a flight will arrive basen on the amount of snowfall at an airpoint.
	Classification	Segment customers into different groups to support a marketing department.
	Clustering	Predict whether a student will complete a university course.

Box 1: Regression

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

Linear regression attempts to establish a linear relationship between one or more independent variables and a numeric outcome, or dependent variable.

You use this module to define a linear regression method, and then train a model using a labeled dataset. The trained model can then be used to make predictions.

Box 2: Classification

Classification is a machine learning method that uses data to determine the category, type, or class of an item or row of data.

Box 3: Clustering

Clustering, in machine learning, is a method of grouping data points into similar clusters. It is also called segmentation.

Over the years, many clustering algorithms have been developed. Almost all clustering algorithms use the features of individual items to find similar items. For example, you might apply clustering to find similar people by demographics. You

might use clustering with text analysis to group sentences with similar topics or sentiment.

Reference: https://docs.microsoft.com/en-us/azure/machine-learning/studio-module-reference/linear-regression

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QUESTION 2

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

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QUESTION 3

HOTSPOT

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

Hot Area:

Answer Area

The interactive answering of questions entered by a user as part of
an application is an example of [▼]

| anomaly detection. |
| computer vision. |
| conversational AI. |
| forecasting. |

Correct Answer:

Answer Area

The interactive answering of questions entered by a user as part of
an application is an example of [▼]

| anomaly detection. |
| computer vision. |
| **conversational AI.** |
| forecasting. |

With Microsoft\\'s Conversational AI tools developers can build, connect, deploy, and manage intelligent bots that naturally interact with their users on a website, app, Cortana, Microsoft Teams, Skype, Facebook Messenger, Slack, and more.

Reference: https://azure.microsoft.com/en-in/blog/microsoft-conversational-ai-tools-enable-developers-to-build-connect-and-manage-intelligent-bots

QUESTION 4

DRAG DROP

Match the machine learning tasks to the appropriate scenarios.

To answer, drag the appropriate task from the column on the left to its scenario 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:

Learning Types

Feature engineering
Feature selection
Model deployment
Model evaluation
Model training

Answer Area

Task	Examining the values of a confusion matrix
Task	Splitting a date into month, day, and year fields
Task	Picking temperature and pressure to train a weather model

Correct Answer:

Learning Types

Model deployment
Model training

Answer Area

Model evaluation	Examining the values of a confusion matrix
Feature engineering	Splitting a date into month, day, and year fields
Feature selection	Picking temperature and pressure to train a weather model

Box 1: Model evaluation

The Model evaluation module outputs a confusion matrix showing the number of true positives, false negatives, false positives, and true negatives, as well as ROC, Precision/Recall, and Lift curves.

Box 2: Feature engineering

Feature engineering is the process of using domain knowledge of the data to create features that help ML algorithms learn better. In Azure Machine Learning, scaling and normalization techniques are applied to facilitate feature engineering.

Collectively, these techniques and feature engineering are referred to as featurization.

Note: Often, features are created from raw data through a process of feature engineering. For example, a time stamp in itself might not be useful for modeling until the information is transformed into units of days, months, or categories that are

relevant to the problem, such as holiday versus working day.

Box 3: Feature selection

In machine learning and statistics, feature selection is the process of selecting a subset of relevant, useful features to use in building an analytical model. Feature selection helps narrow the field of data to the most valuable inputs. Narrowing

the field of data helps reduce noise and improve training performance.

Reference:

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

https://docs.microsoft.com/en-us/azure/machine-learning/concept-automated-ml

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QUESTION 5

You need to determine the location of cars in an image so that you can estimate the distance between the cars. Which type of computer vision should you use?

A. optical character recognition (OCR)

B. object detection

C. image classification

D. face detection

Correct Answer: B

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

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

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

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QUESTION 6

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

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QUESTION 7

HOTSPOT

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

Hot Area:

Answer Area

The ability to extract subtotals and totals from a receipt is a capability of the [▼] service.

| Custom Vision |
| Form Recognizer |
| Ink Recognizer |
| Text Analytics |

Correct Answer:

Answer Area

The ability to extract subtotals and totals from a receipt is a capability of the [▼] service.

| Custom Vision |
| Form Recognizer |
| Ink Recognizer |
| Text Analytics |

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.

Reference: https://azure.microsoft.com/en-us/services/cognitive-services/form-recognizer/

QUESTION 8

You need to reduce the load on telephone operators by implementing a chatbot to answer simple questions with predefined answers.

Which two AI service should you use to achieve the goal? Each correct answer presents part of the solution.

NOTE: Each correct selection is worth one point.

A. Text Analytics

B. QnA Maker

C. Azure Bot Service

D. Translator Text

Correct Answer: BC

Bots are a popular way to provide support through multiple communication channels. You can use the QnA Maker service and Azure Bot Service to create a bot that answers user questions.

Reference: https://docs.microsoft.com/en-us/learn/modules/build-faq-chatbot-qna-maker-azure-bot-service/

QUESTION 9

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. Extract the invoice number from an invoice.

B. Translate a form from French to English.

C. Find image of product in a catalog.

D. Identity the retailer from a receipt.

Correct Answer: AD

Reference: https://azure.microsoft.com/en-gb/services/cognitive-services/form-recognizer/#features

QUESTION 10

HOTSPOT

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

Hot Area:

Answer Area

While presenting at a conference, your session is transcribed into subtitles for the audience. This is an example of ▼

sentiment analysis.
speech recognition.
speech synthesis.
translation.

Correct Answer:

Answer Area

While presenting at a conference, your session is transcribed into subtitles for the audience. This is an example of ▼

sentiment analysis.
speech recognition.
speech synthesis.
translation.

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

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QUESTION 11

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.

Correct Answer: BC

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

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QUESTION 12

HOTSPOT

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

Hot Area:

Answer Area

You can use the [▼] service to train an object detection model by using your own images.

| Computer Vision |
| Custom Vision |
| Form Recognizer |
| Video Indexer |

Correct Answer:

Answer Area

You can use the [▼] service to train an object detection model by using your own images.

| Computer Vision |
| **Custom Vision** |
| Form Recognizer |
| Video Indexer |

Azure Custom Vision is a cognitive service that lets you build, deploy, and improve your own image classifiers. An image classifier is an AI service that applies labels (which represent classes) to images, according to their visual

characteristics. Unlike the Computer Vision service, Custom Vision allows you to specify the labels to apply.

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

submission. Then the algorithm trains to this data and calculates its own accuracy by testing itself on those same images. Once the algorithm is trained, you can test, retrain, and eventually use it to classify new images according to the needs

of your app. You can also export the model itself for offline use.

Incorrect Answers:

Computer Vision:

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.

Reference:

https://docs.microsoft.com/en-us/azure/cognitive-services/custom-vision-service/home

QUESTION 13

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

Correct Answer:

Answer Area

Statements	Yes	No
Forecasting housing prices based on historical data is an example of anomaly detection.	○	◉
Identifying suspicious sign-ins by looking for deviations from usual patterns is an example of anomaly detection.	◉	○
Predicting whether a patient will develop diabetes based on the patient's medical history is an example of anomaly detection.	◉	○

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

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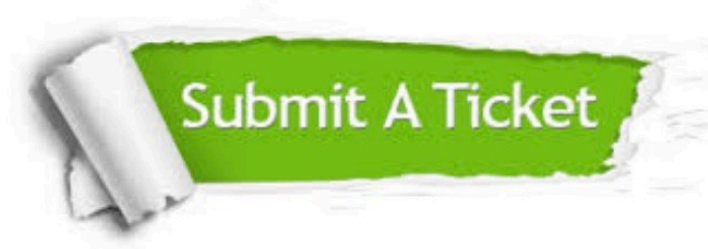Multi-Platform capabilities - Windows, Mac, Android, iPhone, iPod, iPad, Kindle

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