**Answer Summary**

Below is a summary of your answers.

**Question 1 of 50**

Which type of artificial intelligence (AI) workload provides the ability to generate bounding boxes that identify the locations of different types of vehicles in an image?

**Your Answer**

* object detection

**This answer is correct.**

**Correct Answer**

* object detection

**This answer is correct.**

Object detection provides the ability to generate bounding boxes identifying the locations of different types of vehicles in an image. The other answer choices also process images, but their outcomes are different.

[Understand computer vision - Training | Microsoft Learn](https://learn.microsoft.com/training/modules/get-started-ai-fundamentals/4-understand-computer-vision)

**Question 2 of 50**

Which AI service can be integrated into chat applications and generate content in the form of text?

**Your Answer**

* Azure OpenAI

**This answer is correct.**

**Correct Answer**

* Azure OpenAI

**This answer is correct.**

Azure OpenAI is the only service capable of generating text that can be used in chat applications to create conversational experiences. The other workloads are Azure Cognitive Services used for different purposes, but not for generating text used in chat applications.

[Understand generative AI - Training | Microsoft Learn](https://learn.microsoft.com/training/modules/get-started-ai-fundamentals/6-understand-generative-ai)

**Question 3 of 50**

Which type of artificial intelligence (AI) workload has the primary purpose of making large amounts of data searchable?

**Your Answer**

* knowledge mining

**This answer is correct.**

**Correct Answer**

* knowledge mining

**This answer is correct.**

Knowledge mining is an artificial intelligence (AI) workload that has the purpose of making large amounts of data searchable. While other workloads leverage indexing for faster access to large amounts of data, this is not their primary purpose.

[Understand knowledge mining - Training | Microsoft Learn](https://learn.microsoft.com/training/modules/get-started-ai-fundamentals/6-understand-knowledge-mining)

**Question 4 of 50**

Which artificial intelligence (AI) workload scenario is an example of natural language processing (NLP)?

**Your Answer**

* extracting key phrases from a business insights report

**This answer is correct.**

**Correct Answer**

* extracting key phrases from a business insights report

**This answer is correct.**

Extracting key phrases from text to identify the main terms is an NLP workload. Predicting whether customers are likely to buy a product based on previous purchases requires the development of a machine learning model. Monitoring for sudden increases in quantity of failed sign-in attempts is a different workload. Identifying objects in landscape images is a computer vision workload.

[Analyze text with the Language service - Training | Microsoft Learn](https://learn.microsoft.com/training/modules/analyze-text-with-text-analytics-service/)

**Question 5 of 50**

Which principle of responsible artificial intelligence (AI) raises awareness about the limitations of AI-based solutions?

**Your Answer**

* transparency

**This answer is correct.**

**Correct Answer**

* transparency

**This answer is correct.**

Transparency provides clarity regarding the purpose of AI solutions, the way they work, as well as their limitations. The privacy and security, reliability and safety, and accountability principles focus on the capabilities of AI, rather than raising awareness about its limitations.

[Understand Responsible AI - Training | Microsoft Learn](https://learn.microsoft.com/training/modules/get-started-ai-fundamentals/8-understand-responsible-ai)

[Identify principles and practices for responsible AI - Training | Microsoft Learn](https://learn.microsoft.com/training/paths/responsible-ai-business-principles/)

**Question 6 of 50**

Which principle of responsible artificial intelligence (AI) involves evaluating and mitigating the bias introduced by the features of a model?

**Your Answer**

* accountability

**This answer is incorrect.**

**Correct Answer**

* fairness

**This answer is correct.**

Fairness involves evaluating and mitigating the bias introduced by the features of a model. Privacy is meant to ensure that privacy provisions are included in AI solutions. Transparency provides clarity regarding the purpose of AI solutions, the way they work, as well as their limitations. Accountability is focused on ensuring that AI solutions meet ethical and legal standards that are clearly defined.

[Understand Responsible AI - Training | Microsoft Learn](https://learn.microsoft.com/training/modules/get-started-ai-fundamentals/8-understand-responsible-ai)

**Question 7 of 50**

Which principle of responsible artificial intelligence (AI) defines the framework of governance and organization principles that meet ethical and legal standards of AI solutions?

**Your Answer**

* inclusiveness

**This answer is incorrect.**

**Correct Answer**

* accountability

**This answer is correct.**

Accountability defines the framework of governance and organizational principles, which are meant to ensure that AI solutions meet ethical and legal standards that are clearly defined. The other answer choices do not define the framework of governance and organization principles, but provide guidance regarding the ethical and legal aspects of the corresponding standards.

[Understand Responsible AI - Training | Microsoft Learn](https://learn.microsoft.com/training/modules/get-started-ai-fundamentals/8-understand-responsible-ai)

**Question 8 of 50**

Which principle of responsible artificial intelligence (AI) is applied in the design of an AI system to ensure that users understand constraints and limitations of AI?

**Your Answer**

* privacy and security

**This answer is incorrect.**

**Correct Answer**

* transparency

**This answer is correct.**

The transparency principle states that AI systems must be designed in such a way that users are made fully aware of the purpose of the systems, how they work, and which limitations can be expected during use. The inclusiveness principle states that AI systems must empower people in a positive and engaging way. Fairness is applied to AI systems to ensure that users of the systems are treated fairly. The privacy and security principle are applied to the design of AI systems to ensure that the systems are secure and to respect user privacy.

[Understand Responsible AI - Training | Microsoft Learn](https://learn.microsoft.com/training/modules/get-started-ai-fundamentals/8-understand-responsible-ai)

**Question 9 of 50**

Which two principles of responsible artificial intelligence (AI) are most important when designing an AI system to manage healthcare data? Each correct answer presents part of the solution.

**Your Answer**

* accountability

**This answer is correct.**

* privacy and security

**This answer is correct.**

**Correct Answer**

* accountability

**This answer is correct.**

* privacy and security

**This answer is correct.**

The accountability principle states that AI systems are designed to meet any ethical and legal standards that are applicable. The system must be designed to ensure that privacy of the healthcare data is of the highest importance, including anonymizing data where applicable. The fairness principle is applied to AI systems to ensure that users of the systems are treated fairly. The inclusiveness principle states that AI systems must empower people in a positive and engaging way.

[Understand Responsible AI - Training | Microsoft Learn](https://learn.microsoft.com/training/modules/get-started-ai-fundamentals/8-understand-responsible-ai)

**Question 10 of 50**

A company is currently developing driverless agriculture vehicles to help harvest crops. The vehicles will be deployed alongside people working in the crop fields, and as such, the company will need to carry out robust testing.

Which principle of responsible artificial intelligence (AI) is most important in this case?

**Your Answer**

* reliability and safety

**This answer is correct.**

**Correct Answer**

* reliability and safety

**This answer is correct.**

The reliability and safety principles are of paramount importance here as it requires an AI system to work alongside people in a physical environment by using AI controlled machinery. The system must function safely, while ensuring no harm will come to human life.

[Understand Responsible AI - Training | Microsoft Learn](https://learn.microsoft.com/training/modules/get-started-ai-fundamentals/8-understand-responsible-ai)

**Question 11 of 50**

Predicting rainfall for a specific geographical location is an example of which type of machine learning?

**Your Answer**

* classification

**This answer is incorrect.**

**Correct Answer**

* regression

**This answer is correct.**

Predicting rainfall is an example of regression machine learning, as it will predict a numeric value for future rainfall by using historical time-series rainfall data based on factors, such as seasons. Clustering is a machine learning type that analyzes unlabeled data to find similarities in the data. Featurization is not a machine learning type, but a collection of techniques, such as feature engineering, data-scaling, and normalization. Classification is used to predict categories of data.

[Regression - Training | Microsoft Learn](https://learn.microsoft.com/training/modules/fundamentals-machine-learning/4-regression)

**Question 12 of 50**

A company deploys an online marketing campaign to social media platforms for a new product launch. The company wants to use machine learning to measure the sentiment of users on the Twitter platform who made posts in response to the campaign.

Which type of machine learning is this?

**Your Answer**

* clustering

**This answer is incorrect.**

**Correct Answer**

* classification

**This answer is correct.**

Classification is used to predict categories of data. It can predict which category or class an item of data belongs to. In this example, sentiment analysis can be carried out on the Twitter posts with a numeric value applied to the posts to identify and classify positive or negative sentiment. Clustering is a machine learning type that analyzes unlabeled data to find similarities in the data. Regression is a machine learning scenario that is used to predict numeric values. Data transformation is not a machine learning type.

[Clustering - Training | Microsoft Learn](https://learn.microsoft.com/training/modules/fundamentals-machine-learning/7-clustering)

**Question 13 of 50**

An electricity utility company wants to develop a mobile app for its customers to monitor their energy use and to display their predicted energy use for the next 12 months. The company wants to use machine learning to provide a reasonably accurate prediction of future energy use by using the customers’ previous energy-use data.

Which type of machine learning is this?

**Your Answer**

* regression

**This answer is correct.**

**Correct Answer**

* regression

**This answer is correct.**

Regression is a machine learning scenario that is used to predict numeric values. In this example, regression will be able to predict future energy consumption based on analyzing historical time-series energy data based on factors, such as seasonal weather and holiday periods. Multiclass classification is used to predict categories of data. Clustering analyzes unlabeled data to find similarities present in the data. Classification is used to predict categories of data.

[Regression - Training | Microsoft Learn](https://learn.microsoft.com/training/modules/fundamentals-machine-learning/4-regression)

**Question 14 of 50**

A retailer wants to group together online shoppers that have similar attributes to enable its marketing team to create targeted marketing campaigns for new product launches.

Which type of machine learning is this?

**Your Answer**

* clustering

**This answer is correct.**

**Correct Answer**

* clustering

**This answer is correct.**

Clustering is a machine learning type that analyzes unlabeled data to find similarities present in the data. It then groups (clusters) similar data together. In this example, the company can group online customers based on attributes that include demographic data and shopping behaviors. The company can then recommend new products to those groups of customers who are most likely to be interested in them. Classification and multiclass classification are used to predict categories of data. Regression is a machine learning scenario that is used to predict numeric values.

[Regression - Training | Microsoft Learn](https://learn.microsoft.com/training/modules/fundamentals-machine-learning/4-regression)

**Question 15 of 50**

In a regression machine learning algorithm, how are features and labels handled in a validation dataset?

**Your Answer**

* Features are used to generate predictions for the label, which is compared to the actual label values.

**This answer is correct.**

**Correct Answer**

* Features are used to generate predictions for the label, which is compared to the actual label values.

**This answer is correct.**

In a regression machine learning algorithm, features are used to generate predictions for the label, which is compared to the actual label value. There is no direct comparison of features or labels between the validation and training datasets.

[What is regression? - Training | Microsoft Learn](https://learn.microsoft.com/training/modules/train-evaluate-regression-models/2-what-is-regression)

**Question 16 of 50**

Which assumption of the multiple linear regression model should be satisfied to avoid misleading predictions?

**Your Answer**

* Features are independent of each other.

**This answer is correct.**

**Correct Answer**

* Features are independent of each other.

**This answer is correct.**

Multiple linear regression models the relationship between several features and a single label. The features must be independent of each other, otherwise, the model's predictions will be misleading.

[Multiple linear regression and R-squared - Training | Microsoft Learn](https://learn.microsoft.com/training/modules/understand-regression-machine-learning/4-multiple-linear-regression)

**Question 17 of 50**

In a regression machine learning algorithm, what are the characteristics of features and labels in a training dataset?

**Your Answer**

* known feature and label values

**This answer is correct.**

**Correct Answer**

* known feature and label values

**This answer is correct.**

In a regression machine learning algorithm, a training set contains known feature and label values.

[What is regression? - Training | Microsoft Learn](https://learn.microsoft.com/training/modules/train-evaluate-regression-models/2-what-is-regression)

**Question 18 of 50**

A company is using machine learning to predict house prices based on appropriate house attributes.

For the machine learning model, which attribute is the label?

**Your Answer**

* price of the house

**This answer is correct.**

**Correct Answer**

* price of the house

**This answer is correct.**

The price of the house is the label you are attempting to predict through the machine learning model. This is typically done by using a regression model. Floor space size, number of bedrooms, and age of the house are all input variables for the model to help predict the house price label.

[Fundamentals of machine learning - Training | Microsoft Learn](https://learn.microsoft.com/training/modules/fundamentals-machine-learning/)

**Question 19 of 50**

You need to use the Azure Machine Learning designer to train a machine learning model.

What should you do first in the Machine Learning designer?

**Your Answer**

* Add a dataset.

**This answer is incorrect.**

**Correct Answer**

* Create a pipeline.

**This answer is correct.**

Before you can start training a machine learning model, you must first create a pipeline in the Machine Learning designer. This is followed by adding a dataset, adding training modules, and eventually deploying a service.

[Regression - Training | Microsoft Learn](https://learn.microsoft.com/training/modules/fundamentals-machine-learning/4-regression)

**Question 20 of 50**

Which three supervised machine learning models can you train by using automated machine learning (automated ML) in the Azure Machine Learning studio? Each correct answer presents a complete solution.

**Your Answer**

* Classification

**This answer is correct.**

* regression

**This answer is correct.**

* time-series forecasting

**This answer is correct.**

**Correct Answer**

* Classification

**This answer is correct.**

* regression

**This answer is correct.**

* time-series forecasting

**This answer is correct.**

Time-series forecasting, regression, and classification are supervised machine learning models. Automated ML learning can predict categories or classes by using a classification algorithm, as well as numeric values as part of the regression algorithm, and at a future point in time by using time-series data. Inference pipeline is not a machine learning model. Clustering is unsupervised machine learning and automated ML only works with supervised learning algorithms.

[Fundamentals of machine learning - Training | Microsoft Learn](https://learn.microsoft.com/training/modules/fundamentals-machine-learning/)

**Question 21 of 50**

Which three data transformation modules are in the Azure Machine Learning designer? Each correct answer presents a complete solution.

**Your Answer**

* Clean Missing Data

**This answer is correct.**

* Normalize Data

**This answer is correct.**

* Select Columns in Dataset

**This answer is correct.**

**Correct Answer**

* Clean Missing Data

**This answer is correct.**

* Normalize Data

**This answer is correct.**

* Select Columns in Dataset

**This answer is correct.**

Normalize Data is a data transformation module that is used to change the values of numeric columns in a dataset to a common scale, without distorting differences in the range of values. The Clean Missing Data module is part of preparing the data and data transformation process. Select Columns in Dataset is a data transformation component that is used to choose a subset of columns of interest from a dataset. The train clustering model is not a part of data transformation. The evaluate model is a component used to measure the accuracy of training models.

[Clustering - Training | Microsoft Learn](https://learn.microsoft.com/training/modules/fundamentals-machine-learning/7-clustering)

**Question 22 of 50**

What is an unsupervised machine learning algorithm module for training models in the Azure Machine Learning designer?

**Your Answer**

* K-Means Clustering

**This answer is correct.**

**Correct Answer**

* K-Means Clustering

**This answer is correct.**

K-means clustering is an unsupervised machine learning algorithm component used for training clustering models. You can use unlabeled data with this algorithm. Linear regression and classification are supervised machine learning algorithm components. You need labeled data to use these algorithms. Normalize Data is not a machine learning algorithm module.

[Clustering - Training | Microsoft Learn](https://learn.microsoft.com/training/modules/fundamentals-machine-learning/7-clustering)

**Question 23 of 50**

Which artificial intelligence (AI) technique serves as the foundation for modern image classification solutions?

**Your Answer**

* semantic segmentation

**This answer is incorrect.**

**Correct Answer**

* deep learning

**This answer is correct.**

Modern image classification solutions are based on deep learning techniques. Semantic segmentation provides the ability to classify individual pixels in an image depending on the object that they represent. Both linear regression and multiple linear regression use training and validating predictions to predict numeric values, so they are not part of image classification solutions.

[Machine learning for computer vision - Training | Microsoft Learn](https://learn.microsoft.com/training/modules/analyze-images-computer-vision/2b-computer-vision-models)

[Fundamentals of machine learning - Training | Microsoft Learn](https://learn.microsoft.com/training/modules/fundamentals-machine-learning/)

**Question 24 of 50**

Which computer vision service provides bounding coordinates as part of its output?

**Your Answer**

* object detection

**This answer is correct.**

**Correct Answer**

* object detection

**This answer is correct.**

Object detection provides the ability to generate bounding boxes that identify the locations of different types of objects in an image, including the bounding box coordinates, designating the location of the object in the image. Semantic segmentation provides the ability to classify individual pixels in an image. Image classification classifies images based on their contents. Image analysis extracts information from the image to label it with tags or captions.

[Get started with image analysis on Azure - Training | Microsoft Learn](https://learn.microsoft.com/training/modules/analyze-images-computer-vision/2-image-analysis-azure)

[Understand computer vision - Training | Microsoft Learn](https://learn.microsoft.com/training/modules/get-started-ai-fundamentals/4-understand-computer-vision)

**Question 25 of 50**

Which process allows you to use optical character recognition (OCR)?

**Your Answer**

* digitizing medical records

**This answer is correct.**

**Correct Answer**

* digitizing medical records

**This answer is correct.**

OCR can extract printed or handwritten text from images. In this case, it can be used to extract text from scanned medical records to produce a digital archive from paper-based documents. Identifying wildlife in an image is an example of a computer vision solution that uses object detection and is not suitable for OCR. Identifying a user requesting access to a laptop is done by taking images from the laptop’s webcam and using facial detection and recognition to identify the user requesting access. Translating speech to text is an example of using speech translation and uses the Azure AI Speech service as part of Azure AI Services.

[Read text with the Computer Vision service - Training | Microsoft Learn](https://learn.microsoft.com/training/modules/read-text-computer-vision/)

**Question 26 of 50**

You have a set of images. Each image shows one type of bone fracture. What allows you to identify bone fractures in different X-ray images?

**Your Answer**

* object detection

**This answer is incorrect.**

**Correct Answer**

* image classification

**This answer is correct.**

Image classification is part of computer vision and can be used to evaluate images from an X-ray machine to quickly classify specific bone fracture types. This helps improve diagnosis and treatment plans. An image classification model is trained to facilitate the categorizing of the bone fractures. Object detection is used to return identified objects in an image, such as a cat, person, or chair. Conversational AI is used to create intelligent bots that can interact with people by using natural language. Facial detection is used to detect the location of human faces in an image.

[Machine learning for computer vision - Training | Microsoft Learn](https://learn.microsoft.com/training/modules/analyze-images-computer-vision/2b-computer-vision-models)

**Question 27 of 50**

Which three parts of the machine learning process does the Azure AI Vision eliminate the need for? Each correct answer presents part of the solution.

**Your Answer**

* choosing a model

**This answer is correct.**

* evaluating a model

**This answer is correct.**

* training a model

**This answer is correct.**

**Correct Answer**

* choosing a model

**This answer is correct.**

* evaluating a model

**This answer is correct.**

* training a model

**This answer is correct.**

The computer vision service eliminates the need for choosing, training, and evaluating a model by providing pre-trained models. To use computer vision, you must create an Azure resource. The use of computer vision involves inferencing.

[Machine learning for computer vision - Training | Microsoft Learn](https://learn.microsoft.com/training/modules/analyze-images-computer-vision/2b-computer-vision-models)

**Question 28 of 50**

Which two specialized domain models are supported by using the Azure AI Vision service? Each correct answer presents a complete solution.

**Your Answer**

* celebrities

**This answer is correct.**

* landmarks

**This answer is correct.**

**Correct Answer**

* celebrities

**This answer is correct.**

* landmarks

**This answer is correct.**

The Azure AI Vision service supports the celebrities and landmarks specialized domain models. It does not support specialized domain models for animals, cars, or plants.

[Get started with image analysis on Azure - Training | Microsoft Learn](https://learn.microsoft.com/training/modules/analyze-images-computer-vision/2-image-analysis-azure)

**Question 29 of 50**

Which additional piece of information is included with each phrase returned by an image description task of the Azure AI Vision?

**Your Answer**

* confidence score

**This answer is correct.**

**Correct Answer**

* confidence score

**This answer is correct.**

Each phrase returned by an image description task of the Azure AI Vision includes the confidence score. An endpoint and a key must be provided to access the Azure AI Vision service. Bounding box coordinates are returned by services such as object detection, but not image description.

[Get started with image analysis on Azure - Training | Microsoft Learn](https://learn.microsoft.com/training/modules/analyze-images-computer-vision/2-image-analysis-azure)

**Question 30 of 50**

Which two prebuilt models allow you to use the Azure AI Document Intelligence service to scan information from international passports and sales accounts? Each correct answer presents part of the solution.

**Your Answer**

* ID document model

**This answer is correct.**

* invoice model

**This answer is correct.**

**Correct Answer**

* ID document model

**This answer is correct.**

* invoice model

**This answer is correct.**

The invoice model extracts key information from sales invoices and is suitable for extracting information from sales account documents. The ID document model is optimized to analyze and extract key information from US driver’s licenses and international passport biographical pages. The business card model, receipt model, and language model are not suitable to extract information from passports or sales account documents.

[Analyze receipts with the Form Recognizer service - Training | Microsoft Learn](https://learn.microsoft.com/training/modules/analyze-receipts-form-recognizer/)

[Document processing models - Form Recognizer - Azure Applied AI Services | Microsoft Learn](https://learn.microsoft.com/azure/applied-ai-services/form-recognizer/concept-model-overview?view=form-recog-3.0.0)

**Question 31 of 50**

When using the Azure AI Face service, what should you use to perform one-to-many or one-to-one face matching? Each correct answer presents a complete solution.

**Your Answer**

* face attributes

**This answer is incorrect.**

* face identification

**This answer is correct.**

* face verification

**This answer is correct.**

**Correct Answer**

* face identification

**This answer is correct.**

* face verification

**This answer is correct.**

Face identification in the Azure AI Face service can address one-to-many matching of one face in an image to a set of faces in a secure repository. Face verification has the capability for one-to-one matching of a face in an image to a single face from a secure repository or a photo to verify whether they are the same individual. Face attributes, the find similar faces operation, and Azure AI Custom Vision do not verify the identity of a face.

[What is the Azure Face service? - Azure Cognitive Services | Microsoft Learn](https://learn.microsoft.com/azure/cognitive-services/computer-vision/overview-identity)

[Detect and analyze faces with the Face service - Training | Microsoft Learn](https://learn.microsoft.com/training/modules/detect-analyze-faces/)

**Question 32 of 50**

Which service can you use to train an image classification model?

**Your Answer**

* Azure AI Custom Vision

**This answer is correct.**

**Correct Answer**

* Azure AI Custom Vision

**This answer is correct.**

Azure AI Custom Vision is an image recognition service that allows you to build and deploy your own image models. The Azure AI vision service, Azure AI Face service, and Azure AI Language service do not provide the capability to train your own image model.

[What is Custom Vision? - Azure Cognitive Services | Microsoft Learn](https://learn.microsoft.com/azure/cognitive-services/custom-vision-service/overview)

[Understand Text Analytics - Training | Microsoft Learn](https://learn.microsoft.com/training/modules/analyze-text-with-text-analytics-service/2-understand-text-analytics)

**Question 33 of 50**

Which natural language processing (NLP) technique normalizes words before counting them?

**Your Answer**

* stemming

**This answer is correct.**

**Correct Answer**

* stemming

**This answer is correct.**

Stemming normalizes words before counting them. Frequency analysis counts how often a word appears in a text. N-grams extend frequency analysis to include multi-term phrases. Vectorization captures semantic relationships between words by assigning them to locations in n-dimensional space.

[Understand Text Analytics - Training | Microsoft Learn](https://learn.microsoft.com/training/modules/analyze-text-with-text-analytics-service/2-understand-text-analytics)

**Question 34 of 50**

What is the confidence score returned by the Azure AI Language detection service of natural language processing (NLP) for an unknown language name?

**Your Answer**

* NaN

**This answer is correct.**

**Correct Answer**

* NaN

**This answer is correct.**

NaN, or not a number, designates an unknown confidence score. Unknown is a value with which the NaN confidence score is associated. The score values range between 0 and 1, with 0 designating the lowest confidence score and 1 designating the highest confidence score.

[Get started with text analysis - Training | Microsoft Learn](https://learn.microsoft.com/training/modules/analyze-text-with-text-analytics-service/2-get-started-azure)

**Question 35 of 50**

Which part of speech synthesis in natural language processing (NLP) involves breaking text into individual words such that each word can be assigned phonetic sounds?

**Your Answer**

* key phrase extraction

**This answer is incorrect.**

**Correct Answer**

* tokenization

**This answer is correct.**

Tokenization is part of speech synthesis that involves breaking text into individual words such that each word can be assigned phonetic sounds. Transcribing is part of speech recognition, which involves converting speech into a text representation. Key phrase extraction is part of language processing, not speech synthesis. Lemmatization, also known as stemming, is part of language processing, not speech synthesis.

[Recognize and synthesize speech - Training | Microsoft Learn](https://learn.microsoft.com/training/modules/recognize-synthesize-speech/)

**Question 36 of 50**

Which Azure AI Service for Language feature can be used to analyze online user reviews to identify whether users view a product positively or negatively?

**Your Answer**

* sentiment analysis

**This answer is correct.**

**Correct Answer**

* sentiment analysis

**This answer is correct.**

Sentiment analysis provides sentiment labels, such as negative, neutral, and positive, based on a confidence score from text analysis. This makes it suitable for understanding user sentiment for product reviews. The named entity recognition, key phrase extraction, and language detection features cannot perform sentiment analysis for product reviews.

[Analyze text with the Language service - Training | Microsoft Learn](https://learn.microsoft.com/training/modules/analyze-text-with-text-analytics-service/)

[What is sentiment analysis and opinion mining in Azure Cognitive Service for Language? - Azure Cognitive Services | Microsoft Learn](https://learn.microsoft.com/azure/cognitive-services/language-service/sentiment-opinion-mining/overview)

**Question 37 of 50**

Which Azure AI Service for Language feature allows you to analyze written articles to extract information and concepts, such as people and locations, for classification purposes?

**Your Answer**

* Personally Identifiable Information (PII) detection

**This answer is incorrect.**

**Correct Answer**

* named entity recognition

**This answer is correct.**

Named entity recognition can identify and categorize entities in unstructured text, such as people, places, organizations, and quantities, and is suitable to support the development of an article recommendation system. Key phrase extraction, Content Moderator, and the PII feature are not suited to entity recognition tasks to build a recommender system.

[What is the Named Entity Recognition (NER) feature in Azure Cognitive Service for Language? – Azure Cognitive Services | Microsoft Learn](https://learn.microsoft.com/azure/cognitive-services/language-service/named-entity-recognition/overview)

[Analyze text with the Language service – Training | Microsoft Learn](https://learn.microsoft.com/training/modules/analyze-text-with-text-analytics-service/)

**Question 38 of 50**

Which three values are returned by the language detection feature of the Azure AI Language service in Azure?

**Your Answer**

* Bounding box coordinates

**This answer is incorrect.**

* ISO 6391 Code

**This answer is correct.**

* Score

**This answer is correct.**

**Correct Answer**

* ISO 6391 Code

**This answer is correct.**

* Language Name

**This answer is correct.**

* Score

**This answer is correct.**

Language Name, ISO 6391 Code, and Score are three values returned by the Language service of natural language processing (NLP) in Azure. Bounding box coordinates are returned by the Azure AI Vision services in Azure. Wikipedia URL is one of potential values returned by entity linking of entity recognition.

[Get started with text analysis - Training | Microsoft Learn](https://learn.microsoft.com/training/modules/analyze-text-with-text-analytics-service/2-get-started-azure)

**Question 39 of 50**

Which feature of the Azure AI Language service includes functionality that returns links to external websites to disambiguate terms identified in a text?

**Your Answer**

* entity recognition

**This answer is correct.**

**Correct Answer**

* entity recognition

**This answer is correct.**

Entity recognition includes the entity linking functionality that returns links to external websites to disambiguate terms (entities) identified in a text. Key phrase extraction evaluates the text of a document and identifies its main talking points. Azure AI Language detection identifies the language in which text is written. Sentiment analysis evaluates text and returns sentiment scores and labels for each sentence.

[Get started with text analysis - Training | Microsoft Learn](https://learn.microsoft.com/training/modules/analyze-text-with-text-analytics-service/2-get-started-azure)

**Question 40 of 50**

For which two scenarios is the Universal Language Model used by the speech-to-text API optimized? Each correct answer presents a complete solution.

**Your Answer**

* conversational

**This answer is correct.**

* language

**This answer is incorrect.**

**Correct Answer**

* conversational

**This answer is correct.**

* dictation

**This answer is correct.**

The Universal Language Model used by the speech-to-text API is optimized for conversational and dictation scenarios. The acoustic, language, and pronunciation scenarios require developing your own model.

[Get started with speech on Azure - Training | Microsoft Learn](https://learn.microsoft.com/training/modules/recognize-synthesize-speech/2-get-started-azure)

**Question 41 of 50**

Which Azure resource provides direct access to both Azure AI Translator and Azure AI Speech services through a single endpoint and authentication key?

**Your Answer**

* Azure AI Bot Service

**This answer is incorrect.**

**Correct Answer**

* Azure AI Services

**This answer is correct.**

Azure AI Services provides direct access to both Azure AI Translator and Azure AI Speech services through a single endpoint and authentication key. Azure AI Language service can be used to access the Azure AI Language service, but not the Azure AI Translator and Azure AI Speech services. The Machine Learning service is used to design, implement, and deploy Machine Learning models. Azure AI Bot Service provides a framework for developing, publishing, and managing bots in Azure.

[Get started with translation in Azure - Training | Microsoft Learn](https://learn.microsoft.com/training/modules/translate-text-with-translation-service/2-get-started-azure)

**Question 42 of 50**

Which three sources can be used to generate questions and answers for a knowledge base? Each correct answer presents a complete solution.

**Your Answer**

* a webpage

**This answer is correct.**

* an existing FAQ document

**This answer is correct.**

* manually entered data

**This answer is correct.**

**Correct Answer**

* a webpage

**This answer is correct.**

* an existing FAQ document

**This answer is correct.**

* manually entered data

**This answer is correct.**

A webpage or an existing document, such as a text file containing question and answer pairs, can be used to generate a knowledge base. You can also manually enter the knowledge base question-and-answer pairs. You cannot directly use an image or an audio file to import a knowledge base.

[Build a bot with the Language Service and Azure Bot Service - Training | Microsoft Learn](https://learn.microsoft.com/training/modules/build-faq-chatbot-qna-maker-azure-bot-service/)

**Question 43 of 50**

Select the answer that correctly completes the sentence.

**[Answer choice]** use plugins to provide end users with the ability to get help with common tasks from a generative AI model.

**Your Answer**

* Copilots

**This answer is correct.**

**Correct Answer**

* Copilots

**This answer is correct.**

Copilots are often integrated into applications to provide a way for users to get help with common tasks from a generative AI model. Copilots are based on a common architecture, so developers can build custom copilots for various business-specific applications and services.

[What are copilots? - Training | Microsoft Learn](https://learn.microsoft.com/training/modules/fundamentals-generative-ai/5-copilots)

**Question 44 of 50**

At which layer can you apply content filters to suppress prompts and responses for a responsible generative AI solution?

**Your Answer**

* safety system

**This answer is correct.**

**Correct Answer**

* safety system

**This answer is correct.**

The safety system layer includes platform-level configurations and capabilities that help mitigate harm. For example, the Azure OpenAI service includes support for content filters that apply criteria to suppress prompts and responses based on the classification of content into four severity levels (safe, low, medium, and high) for four categories of potential harm (hate, sexual, violence, and self-harm).

[Responsible generative AI - Training | Microsoft Learn](https://learn.microsoft.com/training/modules/responsible-ai-studio/)

**Question 45 of 50**

Select the answer that correctly completes the sentence.

**[Answer choice]** can return responses, such as natural language, images, or code, based on natural language input.

**Your Answer**

* Generative AI

**This answer is correct.**

**Correct Answer**

* Generative AI

**This answer is correct.**

Generative AI models offer the capability of generating images based on a prompt by using DALL-E models, such as generating images from natural language. The other AI capabilities are used in different contexts to achieve other goals.

[What is generative AI? - Training | Microsoft Learn](https://learn.microsoft.com/training/modules/fundamentals-generative-ai/2-what-is-generative-ai)

**Question 46 of 50**

Select the answer that correctly completes the sentence.

**[Answer choice]** can used to identify constraints and styles for the responses of a generative AI model.

**Your Answer**

* System messages

**This answer is correct.**

**Correct Answer**

* System messages

**This answer is correct.**

System messages should be used to set the context for the model by describing expectations. Based on system messages, the model knows how to respond to prompts. The other techniques are also used in generative AI models, but for other use cases.

[Improve generative AI responses with prompt engineering - Training | Microsoft Learn](https://learn.microsoft.com/training/modules/fundamentals-generative-ai/6-writing-prompts)

**Question 47 of 50**

As per the NIST AI Risk Management Framework, what is the first stage to consider when developing a responsible generative AI solution?

**Your Answer**

* Identify potential harms.

**This answer is correct.**

**Correct Answer**

* Identify potential harms.

**This answer is correct.**

Identifying potential harms is the first stage when planning a responsible generative AI solution.

[Responsible generative AI - Training | Microsoft Learn](https://learn.microsoft.com/training/modules/responsible-ai-studio/)

**Question 48 of 50**

You plan to develop an image processing solution that will use DALL-E as a generative AI model.

Which capability is **NOT** supported by the DALL-E model?

**Your Answer**

* image description

**This answer is correct.**

**Correct Answer**

* image description

**This answer is correct.**

Image description is not a capability included in the DALL-E model, therefore, it is not a use case that can be implemented by using DALL-E, while the other three capabilities are offered by DALL-E in Azure OpenAI.

[Fundamentals of Generative AI - Training | Microsoft Learn](https://learn.microsoft.com/training/modules/fundamentals-generative-ai/)

**Question 49 of 50**

Which generative AI model is used to generate images based on natural language prompts?

**Your Answer**

* DALL-E

**This answer is correct.**

**Correct Answer**

* DALL-E

**This answer is correct.**

DALL-E is a model that can generate images from natural language. GPT-4 and GPT-3.5 can understand and generate natural language and code but not images. Embeddings can convert text into numerical vector form to facilitate text similarity. Whisper can transcribe and translate speech to text.

[Azure OpenAI Service models - Azure OpenAI | Microsoft Learn](https://learn.microsoft.com/azure/ai-services/openai/concepts/models)

**Question 50 of 50**

Select the answer that correctly completes the sentence.

**[Answer choice]** can search, classify, and compare sources of text for similarity.

**Your Answer**

* Data grounding

**This answer is incorrect.**

**Correct Answer**

* Embeddings

**This answer is correct.**

Embeddings is an Azure OpenAI model that converts text into numerical vectors for analysis. Embeddings can be used to search, classify, and compare sources of text for similarity.

[Fundamentals of Generative AI - Training | Microsoft Learn](https://learn.microsoft.com/training/modules/fundamentals-generative-ai/)

[Skip to main content](https://learn.microsoft.com/en-us/credentials/certifications/azure-ai-fundamentals/practice/results?assessmentId=26&practice-assessment-type=certification&snapshotId=2226c752-6b91-4540-8b4f-7efc51ce963b#main)

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**Practice Assessment Results: September 26, 2025**

**Practice Assessment for Exam AI-900: Microsoft Azure AI Fundamentals**

It took you 23 minutes to complete this assessment.

**Overall Results**

To be better prepared for the exam, aim to achieve a score of 80% or higher in multiple attempts.

Score: 72%

**Performance by assessment section**

To further strengthen your skills in the following areas, refer to the Customized Learning Material section below.

Describe Artificial Intelligence workloads and considerations

Describe fundamental principles of machine learning on Azure

Describe features of computer vision workloads on Azure

Describe features of Natural Language Processing (NLP) workloads on Azure

Describe features of generative AI workloads on Azure

**Ready to take the exam?**

**Customized learning material to improve your skills**

**Because you scored lower in "Describe Artificial Intelligence workloads and considerations":**

* + Introduction to AI concepts
  + 31 mins

**Because you scored lower in "Describe fundamental principles of machine learning on Azure":**

* + Create and understand classification models in machine learning
  + 52 mins
  + Train and understand regression models in machine learning
  + 52 mins
  + Introduction to machine learning concepts
  + 93 mins
  + Train and evaluate clustering models
  + 38 mins
  + Train and evaluate regression models
  + 52 mins

**Because you scored lower in "Describe features of Natural Language Processing (NLP) workloads on Azure":**

* + Introduction to Azure AI Translator
  + 31 mins
  + Get started with speech in Azure
  + 31 mins
* Manage cookies
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* [Previous Versions](https://learn.microsoft.com/en-us/previous-versions/)
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