Exam Questions AI-900

Microsoft Azure AI Fundamentals (beta)

https://www.2passeasy.com/dumps/AI-900/

NEW QUESTION 1
- (Topic 5)
You are developing a conversational AI solution that will communicate with users through multiple channels including email, Microsoft Teams, and webchat.
Which service should you use?

A. Text Analytics
B. Azure Bot Service
C. Translator
D. Form Recognizer

Answer: B

Explanation:
Reference:
https://docs.microsoft.com/en-us/azure/bot-service/bot-service-overview-introduction?view=azure-bot-service-4.0

NEW QUESTION 2
- (Topic 5)
You have a website that includes customer reviews.
You need to store the reviews in English and present the reviews to users in their respective language by recognizing each user's geographical location.
Which type of natural language processing workload should you use?

A. translation
B. language modeling
C. key phrase extraction
D. speech recognition

Answer: C

NEW QUESTION 3
- (Topic 5)
You need to create a customer support solution to help customers access information. The solution must support email, phone, and live chat channels. Which type of AI solution should you use?

A. natural language processing (NLP)
B. computer vision
C. machine learning
D. chatbot

Answer: D

NEW QUESTION 4
- (Topic 5)
Which Computer Vision feature can you use to generate automatic captions for digital photographs?

A. Recognize text.
B. Describe the images.
C. Identify the areas of interest.
D. Detect objects.

Answer: B

NEW QUESTION 5
- (Topic 5)
You have the process shown in the following exhibit.
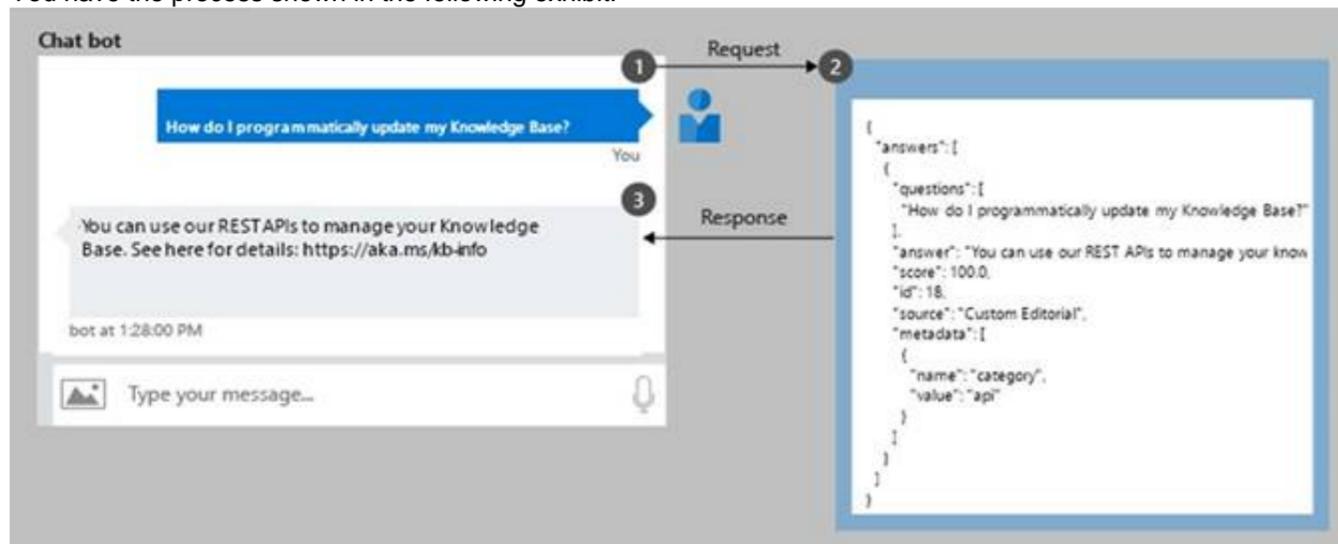
Which type AI solution is shown in the diagram?

A. a sentiment analysis solution
B. a chatbot

C. a machine learning model
D. a computer vision application

Answer: B

NEW QUESTION 6
DRAG DROP - (Topic 5)
Match the machine learning models to the appropriate deceptions.
To answer, drag the appropriate model from the column on the left to its description on the right Each model may be used once, more than once, or not at all.
NOTE: Each correct match is worth one point.

Models	Answer Area	
Classification		A supervised machine learning model used to predict numeric values.
Clustering		A supervised machine learning model used to predict categories.
Regression		An unsupervised machine learning model used to group similar entities based on features.

A. Mastered
B. Not Mastered

Answer: A

Explanation:

Models	Answer Area	
Classification	Regression	A supervised machine learning model used to predict numeric values.
Clustering	Classification	A supervised machine learning model used to predict categories.
Regression	Clustering	An unsupervised machine learning model used to group similar entities based on features.

NEW QUESTION 7
- (Topic 5)
Which AI service should you use to create a bot from a frequently asked questions (FAQ) document?

A. QnA Maker
B. Language Understanding (LUIS)
C. Text Analytics
D. Speech

Answer: A

NEW QUESTION 8
- (Topic 5)
During the process of Machine Learning, when should you review evaluation metrics?

A. After you clean the data.
B. Before you train a model.
C. Before you choose the type of model.
D. After you test a model on the validation data.

Answer: D

NEW QUESTION 9
HOTSPOT - (Topic 5)
Select the answer that correctly completes the sentence.

Answer Area

According to Microsoft's [fairness ▼] principle of responsible AI,
accountability
fairness
inclusiveness
transparency

AI systems should **NOT** reflect biases from the data sets that are used to train the systems.

A. Mastered
B. Not Mastered

Answer: A

Explanation:

Answer Area

According to Microsoft's [fairness ▼] principle of responsible AI,
- accountability
- fairness
- inclusiveness
- transparency
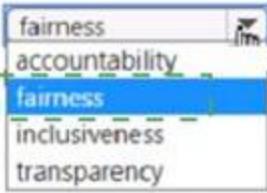
AI systems should **NOT** reflect biases from the data sets that are used to train the systems.

NEW QUESTION 10
HOTSPOT - (Topic 5)
Select the answer that correctly completes the sentence.

Answer Area

A banking system that predicts whether a loan will be repaid

is an example of the [classification ▼] type of machine learning.
- classification
- clustering
- regression

A. Mastered
B. Not Mastered

Answer: A

Explanation:

Answer Area

A banking system that predicts whether a loan will be repaid

is an example of the [classification ▼] type of machine learning.
- classification
- clustering
- regression

NEW QUESTION 10
HOTSPOT - (Topic 5)
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
You can use Language Service's question answering to query an Azure SQL database.	○	○
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.	○	○
Language Service's question answering can determine the intent of a user utterance.	○	○

A. Mastered
B. Not Mastered

Answer: A

NEW QUESTION 14
DRAG DROP - (Topic 5)
Match the Azure Cognitive Services to the appropriate AI workloads.
To answer, drag the appropriate service from the column on the left to its workload on the right. Each service may be used once, more than once, or not at all.
NOTE: Each correct match is worth one point.

Services		Answer Area	
Custom Vision			Identify objects in an image.
Face			Automatically import data from an invoice to a database.
Form Recognizer			Identify people in an image.

A. Mastered
B. Not Mastered

Answer: A

NEW QUESTION 19
HOTSPOT - (Topic 5)
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
A restaurant can use a chatbot to answer queries through Cortana.	○	○
A restaurant can use a chatbot to answer inquiries about business hours from a webpage.	○	○
A restaurant can use a chatbot to automate responses to customer reviews on an external website.	○	○

A. Mastered
B. Not Mastered

Answer: A

Explanation:

Answer Area

Statements	Yes	No
A restaurant can use a chatbot to answer queries through Cortana.	○	○
A restaurant can use a chatbot to answer inquiries about business hours from a webpage.	○	○
A restaurant can use a chatbot to automate responses to customer reviews on an external website.	○	○

NEW QUESTION 23
- (Topic 5)
Which type of natural language processing (NLP) entity is used to identify a phone number?

A. regular expression
B. machine-learned
C. list
D. Pattern-any

Answer: C

NEW QUESTION 26
- (Topic 5)
Which machine learning technique can be used for anomaly detection?

A. A machine learning technique that understands written and spoken language.
B. A machine learning technique that classifies objects based on user supplied images.
C. A machine learning technique that analyzes data over time and identifies unusual changes.
D. A machine learning technique that classifies images based on their contents.

Answer: C

NEW QUESTION 31
- (Topic 5)
You are building a chatbot that will use natural language processing (NLP) to perform the following actions based on the text input of a user:

• Accept customer orders.
• Retrieve support documents.
• Retrieve order status updates. Which type of NLP should you use?

A. sentiment analysis
B. translation
C. language modeling
D. named entity recognition

Answer: D

NEW QUESTION 35
HOTSPOT - (Topic 5)
Select the answer that correctly completes the sentence.

Answer Area

Regression ▼	models can be used to predict the sale price of auctioned items.
Classification	
Clustering	
Regression	

A. Mastered
B. Not Mastered

Answer: A

Explanation:

Answer Area

Regression ▼	models can be used to predict the sale price of auctioned items.
Classification	
Clustering	
Regression	
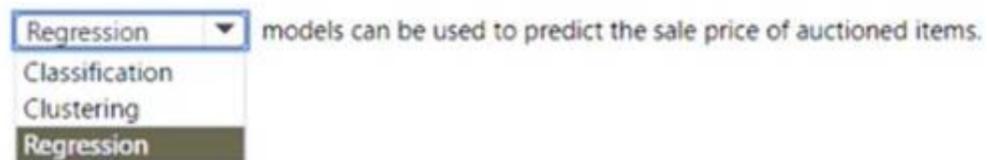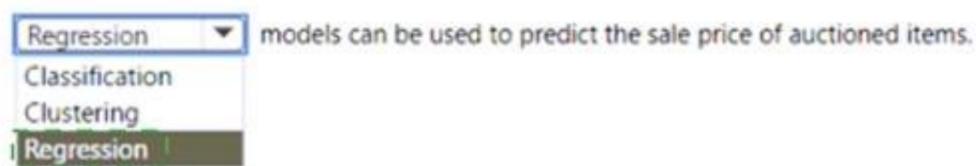
NEW QUESTION 37
- (Topic 5)
You need to implement a pre-built solution that will identify well-known brands in digital photographs. Which Azure AI sen/tee should you use?

A. Face
B. Custom Vision
C. Computer Vision
D. Form Recognizer

Answer: C

NEW QUESTION 40
- (Topic 5)
Which Azure Cognitive Services service can be used to identify documents that contain sensitive information?

A. Custom Vision
B. Conversational Language Understanding
C. Form Recognizer

Answer: C

NEW QUESTION 44
- (Topic 5)
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. key phrase extraction
C. entity recognition
D. speech recognition

Answer: A

NEW QUESTION 46
HOTSPOT - (Topic 5)
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
Chatbots can only be built by using custom code.	○	○
The Azure Bot Service provides services that can be used to host conversational bots.	○	○
Bots built by using the Azure Bot Service can communicate with Microsoft Teams users.	○	○

A. Mastered
B. Not Mastered

Answer: A

Explanation:

Answer Area

Statements	Yes	No
Chatbots can only be built by using custom code.	○	[○]
The Azure Bot Service provides services that can be used to host conversational bots.	[○]	○
Bots built by using the Azure Bot Service can communicate with Microsoft Teams users.	[○]	○

NEW QUESTION 48
HOTSPOT - (Topic 5)
For each of the following statements, select Yes if the statement is true. Otherwise, select No.
NOTE: Each correct selection is worth one point.

Statements	Yes	No
You can use the Translator service to translate text between languages.	○	○
You can use the Translator service to detect the language of a given text.	○	○
You can use the Translator service to transcribe audible speech into text.	○	○

A. Mastered
B. Not Mastered

Answer: A

Explanation:

Statements	Yes	No
You can use the Translator service to translate text between languages.	[○]	○
You can use the Translator service to detect the language of a given text.	[○]	○
You can use the Translator service to transcribe audible speech into text.	[○]	○

NEW QUESTION 49
- (Topic 5)
Which two languages can you use to write custom code for Azure Machine Learning designer? Each correct answer presents a complete solution.
NOTE; Each correct selection is worth one point.

A. C#
B. Scala
C. Python
D. R

Answer: CD

NEW QUESTION 54
HOTSPOT - (Topic 5)
Select the answer that correctly completes the sentence.

Answer Area

Optical character recognition (OCR) ▼	extracts text from handwritten documents.
Object detection	
Facial recognition	
Image classification	
Optical character recognition (OCR)	

A. Mastered
B. Not Mastered

Answer: A

Explanation:

Answer Area

Optical character recognition (OCR) ▼	extracts text from handwritten documents.
Object detection	
Facial recognition	
Image classification	
Optical character recognition (OCR)	

NEW QUESTION 55
HOTSPOT - (Topic 5)
To complete the sentence, select the appropriate option in the answer area.

Answer Area

An AI solution that helps photographers take better portrait photographs by providing feedback on exposure, noise, and occlusion is an example of facial | recognition. ▼ |
| analysis. |
| detection. |
| recognition. |

A. Mastered
B. Not Mastered

Answer: A

Explanation:

Answer Area

An AI solution that helps photographers take better portrait photographs by providing feedback on exposure, noise, and occlusion is an example of facial | recognition. ▼ |
| analysis. |
| detection. |
| recognition. |
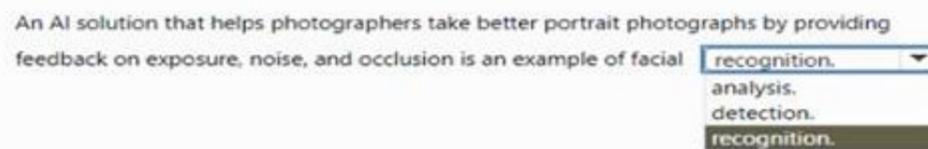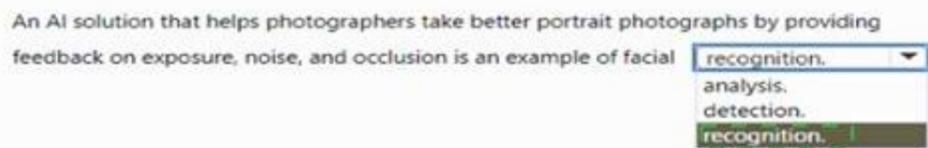
NEW QUESTION 56
- (Topic 5)
You have an Internet of Things (IoT) device that monitors engine temperature.
The device generates an alert if the engine temperature deviates from expected norms.
Which type of AI workload does the device represent?

A. natural language processing (NLP)
B. computer vision
C. anomaly detection
D. knowledge mining

Answer: C

NEW QUESTION 58
- (Topic 5)
You have a bot that identifies the brand names of products in images of supermarket shelves.
Which service does the bot use?

A. AI enrichment for Azure Search capabilities
B. Computer Vision Image Analysis capabilities
C. Custom Vision Image Classification capabilities
D. Language understanding capabilities

Answer: B

NEW QUESTION 60
HOTSPOT - (Topic 5)
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
Azure Bot Service and Azure Congnitive Services can be integrated.	○	○
Azure Bot Service engages with customers in a conversational manner.	○	○
Azure Bot Service can import frequently asked questions (FAQ) to question and answer sets.	○	○

A. Mastered
B. Not Mastered

Answer: A

Explanation:
Box 1: Yes
Azure bot service can be integrated with the powerful AI capabilities with Azure Cognitive Services.
Box 2: Yes
Azure bot service engages with customers in a conversational manner.
Box 3: No
The QnA Maker service creates knowledge base, not question and answers sets.
Note: You can use the QnA Maker service and a knowledge base to add question-and- answer support to your bot. When you create your knowledge base, you seed it with questions and answers.

NEW QUESTION 63
HOTSPOT - (Topic 5)
Select the answer that correctly completes the sentence.

Answer Area

Predicting how many vehicles will travel across a bridge on a given day is an example of [classification. / clustering. / regression.]

A. Mastered
B. Not Mastered

Answer: A

Explanation:

Answer Area

Predicting how many vehicles will travel across a bridge on a given day is an example of [classification. / clustering. / regression. 1]

NEW QUESTION 66
HOTSPOT - (Topic 5)
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.

Statements	Yes	No
You can communicate with a bot by using email.	○	○
You can communicate with a bot by using Microsoft Teams.	○	○
You can communicate with a bot by using a webchat interface.	○	○

A. Mastered
B. Not Mastered

Answer: A

Explanation:

Statements	Yes	No
You can communicate with a bot by using email.	☑	○
You can communicate with a bot by using Microsoft Teams.	☑	○
You can communicate with a bot by using a webchat interface.	☑	○

NEW QUESTION 67
HOTSPOT - (Topic 5)
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
A bot that responds to queries by internal users is an example of a natural language processing workload.	○	○
A mobile application that displays images relating to an entered search term is an example of a natural language processing workload.	○	○
A web form used to submit a request to reset a password is an example of a natural language processing workload.	○	○

A. Mastered
B. Not Mastered

Answer: A

Explanation:

Answer Area

Statements	Yes	No
A bot that responds to queries by internal users is an example of a natural language processing workload.	☑	○
A mobile application that displays images relating to an entered search term is an example of a natural language processing workload.	☑	○
A web form used to submit a request to reset a password is an example of a natural language processing workload.	○	☑

NEW QUESTION 71
HOTSPOT - (Topic 4)
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
The Text Analytics service can identify in which language text is written.	○	○
The Text Analytics service can detect handwritten signatures in a document.	○	○
The Text Analytics service can identify companies and organizations mentioned in a document.	○	○

A. Mastered
B. Not Mastered

Answer: A

Explanation:
The Text Analytics API is a cloud-based service that provides advanced natural language processing over raw text, and includes four main functions: sentiment analysis, key phrase extraction, named entity recognition, and language detection.
Box 1: Yes
You can detect which language the input text is written in and report a single language code for every document submitted on the request in a wide range of languages, variants, dialects, and some regional/cultural languages. The language code is paired with a score indicating the strength of the score.
Box 2: No
Box 3: Yes
Named Entity Recognition: Identify and categorize entities in your text as people, places, organizations, date/time, quantities, percentages, currencies, and more. Well-known entities are also recognized and linked to more information on the web.

NEW QUESTION 75
HOTSPOT - (Topic 4)
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
Monitoring online service reviews for profanities is an example of natural language processing.	○	○
Identifying brand logos in an image is an example of natural languages processing.	○	○
Monitoring public news sites for negative mentions of a product is an example of natural language processing.	○	○

A. Mastered
B. Not Mastered

Answer: A

Explanation:
Box 1: Yes
Content Moderator is part of Microsoft Cognitive Services allowing businesses to use machine assisted moderation of text, images, and videos that augment human review.
The text moderation capability now includes a new machine-learning based text classification feature which uses a trained model to identify possible abusive, derogatory or discriminatory language such as slang, abbreviated words, offensive, and intentionally misspelled words for review.
Box 2: No
Azure's Computer Vision service gives you 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.
Box 3: Yes
Natural language processing (NLP) is used for tasks such as sentiment analysis, topic detection, language detection, key phrase extraction, and document categorization.
Sentiment Analysis is the process of determining whether a piece of writing is positive, negative or neutral.

NEW QUESTION 78
- (Topic 4)
You are developing a Chabot solution in Azure.
Which service should you use to determine a user's intent?

A. Translator

B. Azure Cognitive Search
C. Speech
D. Language

Answer: B

Explanation:
Language Understanding (LUIS) is a cloud-based API service that applies custom machine-learning intelligence to a user's conversational, natural language text to predict overall meaning, and pull out relevant, detailed information.
Design your LUIS model with categories of user intentions called intents. Each intent needs examples of user utterances. Each utterance can provide data that needs to be extracted with machine-learning entities.
Reference:
https://docs.microsoft.com/en-us/azure/cognitive-services/luis/what-is-luis

NEW QUESTION 83
- (Topic 4)
You build a QnA Maker bot by using a frequently asked questions (FAQ) page.
You need to add professional greetings and other responses to make the bot more user friendly.
What should you do?

A. Increase the confidence threshold of responses
B. Enable active learning
C. Create multi-turn questions
D. Add chit-chat

Answer: D

Explanation:
Reference:
https://docs.microsoft.com/en-us/azure/cognitive-services/qnamaker/how-to/chit-chat-knowledge-base?tabs=v1

NEW QUESTION 87
DRAG DROP - (Topic 4)
Match the types of natural languages processing 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		Answer Area	
Entity recognition		Workload Type	Extracts persons, locations, and organizations from the text
Key phrase extraction		Workload Type	Evaluates text along a positive-negative scale
Language modeling		Workload Type	Returns text translated to the specified target language
Sentiment analysis			
Natural language processing			
Translation			
Speech recognition and speech synthesis			

A. Mastered
B. Not Mastered

Answer: A

Explanation:
Box 1: Entity recognition
Classify a broad range of entities in text, such as people, places, organisations, date/time and percentages, using named entity recognition. Whereas:- Get a list of relevant phrases that best describe the subject of each record using key phrase extraction.
Box 2: Sentiment analysis
Sentiment Analysis is the process of determining whether a piece of writing is positive, negative or neutral.
Box 3: Translation
Using Microsoft's Translator text API
This versatile API from Microsoft can be used for the following: Translate text from one language to another.
Transliterate text from one script to another. Detecting language of the input text.
Find alternate translations to specific text. Determine the sentence length.

NEW QUESTION 91
- (Topic 3)
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.

Answer: AD

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

NEW QUESTION 96
DRAG DROP - (Topic 3)
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.

Machine Learning Types	Answer Area	
Facial detection		
Facial recognition	Machine Learning Type	Separate images of polar bears and brown bears.
Image classification	Machine Learning Type	Determine the location of a bear in a photo.
Object detection	Machine Learning Type	Determine which pixels in an image are part of a bear.
Optical character recognition (OCR)		
Semantic segmentation		

A. Mastered
B. Not Mastered

Answer: A

Explanation:
Box 1: Image classification
Image classification is a supervised learning problem: define a set of target classes (objects to identify in images), and train a model to recognize them using labeled example photos.
Box 2: Object detection
Object detection is a computer vision problem. While closely related to image classification, object detection performs image classification at a more granular scale. Object detection both locates and categorizes entities within images.
Box 3: Semantic Segmentation
Semantic segmentation achieves fine-grained inference by making dense predictions inferring labels for every pixel, so that each pixel is labeled with the class of its enclosing object ore region.

NEW QUESTION 99
- (Topic 2)
You have a dataset that contains information about taxi journeys that occurred during a given period.
You need to train a model to predict the fare of a taxi journey. What should you use as a feature?

A. the number of taxi journeys in the dataset
B. the trip distance of individual taxi journeys
C. the fare of individual taxi journeys
D. the trip ID of individual taxi journeys

Answer: B

Explanation:
The label is the column you want to predict. The identified Features are the inputs you give the model to predict the Label.
Example:
The provided data set contains the following columns:
vendor_id: The ID of the taxi vendor is a feature. rate_code: The rate type of the taxi trip is a feature.
passenger_count: The number of passengers on the trip is a feature.
trip_time_in_secs: The amount of time the trip took. You want to predict the fare of the trip before the trip is completed. At that moment, you don't know how long the trip would take.
Thus, the trip time is not a feature and you'll exclude this column from the model. trip_distance: The distance of the trip is a feature.
payment_type: The payment method (cash or credit card) is a feature. fare_amount: The total taxi fare paid is the label.
Reference:
https://docs.microsoft.com/en-us/dotnet/machine-learning/tutorials/predict-prices

NEW QUESTION 103
HOTSPOT - (Topic 2)
To complete the sentence, select the appropriate option in the answer area.

Answer Area

Predicting how many hours of overtime a delivery person will work based on
the number of order received is an example of [▼]

classification.

clustering.

regression.

A. Mastered
B. Not Mastered

Answer: A

Explanation:
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.

NEW QUESTION 107
- (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 109
- (Topic 2)
You use Azure Machine Learning designer to publish an inference pipeline.
Which two parameters should you use to consume the pipeline? Each correct answer presents part of the solution.
NOTE: Each correct selection is worth one point.

A. the model name
B. the training endpoint
C. the authentication key
D. the REST endpoint

Answer: CD

Explanation:
https://docs.microsoft.com/en-in/learn/modules/create-regression-model-azure-machine-learning-designer/deploy-service

NEW QUESTION 112
HOTSPOT - (Topic 2)
To complete the sentence, select the appropriate option in the answer area.

Ensuring an AI system does not provide a prediction when important fields contain unusual or missing values is [dropdown] principle for responsible AI.

- an inclusiveness
- a privacy and security
- a reliability and safety
- a transparency

A. Mastered
B. Not Mastered

Answer: A

Explanation:

Ensuring an AI system does not provide a prediction when important fields contain unusual or missing values is [dropdown] principle for responsible AI.

- an inclusiveness
- a privacy and security
- a reliability and safety
- a transparency

NEW QUESTION 117
HOTSPOT - (Topic 2)
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
Automated machine learning is the process of automating the time-consuming, iterative tasks of machine learning model development.	○	○
Automated machine learning can automatically infer the training data from the use case provided.	○	○
Automated machine learning works by running multiple training iterations that are scored and ranked by the metrics you specify.	○	○
Automated machine learning enables you to specify a dataset and will automatically understand which label to predict.	○	○

A. Mastered
B. Not Mastered

Answer: A

Explanation:
Box 1: Yes
Automated machine learning, also referred to as automated ML or AutoML, is the process
of automating the time consuming, iterative tasks of machine learning model development. It allows data scientists, analysts, and developers to build ML models with high scale, efficiency, and productivity all while sustaining model quality.
Box 2: No
Box 3: Yes
During training, Azure Machine Learning creates a number of pipelines in parallel that try different algorithms and parameters for you. The service iterates through ML algorithms paired with feature selections, where each iteration produces a model with a training score. The higher the score, the better the model is considered to "fit" your data. It will stop once it hits the exit criteria defined in the experiment.
Box 4: No
Apply automated ML when you want Azure Machine Learning to train and tune a model for you using the target metric you specify.
The label is the column you want to predict.

NEW QUESTION 120
DRAG DROP - (Topic 1)
You plan to deploy an Azure Machine Learning model as a service that will be used by client applications.
Which three processes should you perform in sequence before you deploy the model? To answer, move the appropriate processes from the list of processes to the answer area and arrange them in the correct order.

Processes

data encryption

model retraining

model training

data preparation

model evaluation

Answer Area

A. Mastered
B. Not Mastered

Answer: A

Explanation:

Processes

data encryption

model retraining

model training

data preparation

model evaluation

Answer Area

data preparation

model training

model evaluation

NEW QUESTION 123
HOTSPOT - (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.

Statements	Yes	No
Providing an explanation of the outcome of a credit loan application is an example of the Microsoft transparency principle for responsible AI.	○	○
A triage bot that prioritizes insurance claims based on injuries is an example of the Microsoft reliability and safety principle for responsible AI.	○	○
An AI solution that is offered at different prices for different sales territories is an example of the Microsoft inclusiveness principle for responsible AI.	○	○

A. Mastered
B. Not Mastered

Answer: A

Explanation:
Box 1: Yes
Achieving transparency helps the team to understand the data and algorithms used to train the model, what transformation logic was applied to the data, the final model generated, and its associated assets. This information offers insights about how the model was created, which allows it to be reproduced in a transparent way.
Box 2: No
A data holder is obligated to protect the data in an AI system, and privacy and security are an integral part of this system. Personal needs to be secured, and it

should be accessed in a way that doesn't compromise an individual's privacy.
Box 3: No
Inclusiveness mandates that AI should consider all human races and experiences, and inclusive design practices can help developers to understand and address potential barriers that could unintentionally exclude people. Where possible, speech-to-text, text-to- speech, and visual recognition technology should be used to empower people with hearing, visual, and other impairments.

NEW QUESTION 124
HOTSPOT - (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.	○	○
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.	○	○

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.

NEW QUESTION 126
- (Topic 1)
You build a machine learning model by using the automated machine learning user interface (UI).
You need to ensure that the model meets the Microsoft transparency principle for responsible AI.
What should you do?

A. Set Validation type to Auto.
B. Enable Explain best model.
C. Set Primary metric to accuracy.
D. Set Max concurrent iterations to 0.

Answer: B

Explanation:
Model Explain Ability.
Most businesses run on trust and being able to open the ML "black box" helps build transparency and trust. In heavily regulated industries like healthcare and banking, it is critical to comply with regulations and best practices. One key aspect of this is understanding the relationship between input variables (features) and model output. Knowing both the magnitude and direction of the impact each feature (feature importance) has on the predicted value helps better understand and explain the model. With model explain ability, we enable you to understand feature importance as part of automated ML runs.
Reference:
https://azure.microsoft.com/en-us/blog/new-automated-machine-learning-capabilities-in-azure-machine-learning-service/

NEW QUESTION 128
HOTSPOT - (Topic 1)
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

A. Mastered
B. Not Mastered

Answer: A

Explanation:

Answer Area

| ▼ | is used to generate additional features. |

Feature engineering
Feature selection
Model evaluation
Model training

NEW QUESTION 132
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