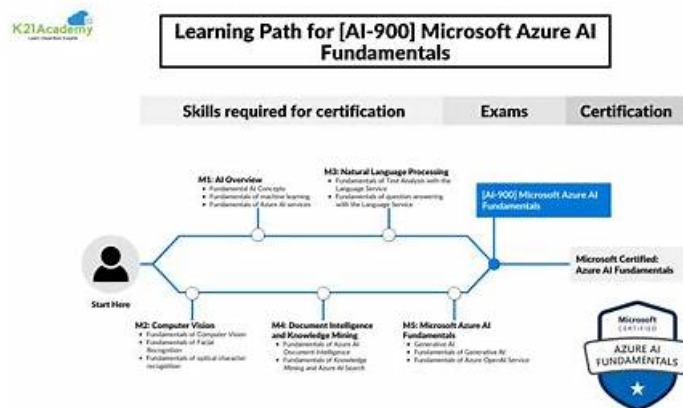


Microsoft - The Best AI-900 - New Microsoft Azure AI Fundamentals Exam Preparation



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Microsoft Azure AI Fundamentals Sample Questions (Q319-Q324):

NEW QUESTION # 319

You need to provide content for a business chatbot that will help answer simple user queries.

What are three ways to create question and answer text by using QnA Maker? Each correct answer presents a complete solution.

NOTE: Each correct selection is worth one point.

- A. Generate the questions and answers from an existing webpage.
- B. Manually enter the questions and answers.
- C. Import chat-chat content from a predefined data source.
- D. Connect the bot to the Cortana channel and ask questions by using Cortana.

- E. Use automated machine learning to train a model based on a file that contains the questions.

Answer: A,B,C

Explanation:

Automatic extraction

Extract question-answer pairs from semi-structured content, including FAQ pages, support websites, excel files, SharePoint documents, product manuals and policies.

Reference:

<https://docs.microsoft.com/en-us/azure/cognitive-services/qnamaker/concepts/content-types>

NEW QUESTION # 320

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
A webchat bot can interact with users visiting a website.	☐	☐
Automatically generating captions for pre-recorded videos is an example of conversational AI.	☐	☐
A smart device in the home that responds to questions such as "What will the weather be like today?" is an example of conversational AI.	☐	☐

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Answer:

Explanation:

Statements	Yes	No
A webchat bot can interact with users visiting a website.	☒	☐
Automatically generating captions for pre-recorded videos is an example of conversational AI.	☐	☒
A smart device in the home that responds to questions such as "What will the weather be like today?" is an example of conversational AI.	☒	☐

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Explanation:

< A webchat bot can interact with users visiting a website # Yes

Automatically generating captions for pre-recorded videos is an example of conversational AI # No A smart device in the home that responds to questions such as "What will the weather be like today?" is an example of conversational AI # Yes

\ These answers are based on the Microsoft Azure AI Fundamentals (AI-900) Official Study Guide and the Microsoft Learn module "Explore conversational AI in Microsoft Azure."

1. A webchat bot can interact with users visiting a website # Yes

This statement is true. A webchat bot is a key example of conversational AI, which allows users to communicate with an intelligent system through natural language. The Azure Bot Service supports a webchat channel, enabling website visitors to ask questions or get assistance directly through a chat interface embedded on a webpage. This allows businesses to provide 24/7 automated support and interactive engagement without human intervention.

2. Automatically generating captions for pre-recorded videos is an example of conversational AI # No This is incorrect because automatically generating captions involves speech-to-text transcription, which falls under speech recognition and not conversational AI. While it uses AI to convert audio into text, it does not involve interactive communication or natural language dialogue. This task would be handled by Azure AI's Speech service, not the conversational AI framework.

3. A smart device in the home that responds to questions such as "What will the weather be like today?" is an example of

conversational AI # Yes This is true. Smart assistants like those found in home devices (e.g., voice-activated systems) use conversational AI technologies to process spoken language (using natural language processing and speech recognition) and generate appropriate responses. This interaction represents a classic example of conversational AI, as it allows human-like dialogue between a user and an AI system

Final Answers:

* Webchat bot interacting with users # Yes

* Auto-captioning videos # No

* Smart home device answering questions # Yes

NEW QUESTION # 321

Match the Microsoft guiding principles for responsible AI to the appropriate descriptions.

To answer, drag the appropriate principle from the column on the left to its description on the right. Each principle may be used once, more than once, or not at all.

NOTE: Each correct selection is worth one point.

Principles	Answer Area
Accountability	Principle Ensure that AI systems operate as they were originally designed, respond to unanticipated conditions, and resist harmful manipulation.
Fairness	Principle Implementing processes to ensure that decisions made by AI systems can be overridden by humans.
Inclusiveness	Principle Provide consumers with information and controls over the collection, use, and storage of their data.
Privacy and security	
Reliability and safety	

Answer:

Explanation:

Principles	Answer Area
Accountability	Reliability and safety Ensure that AI systems operate as they were originally designed, respond to unanticipated conditions, and resist harmful manipulation.
Fairness	Accountability Implementing processes to ensure that decisions made by AI systems can be overridden by humans.
Inclusiveness	Privacy and security Provide consumers with information and controls over the collection, use, and storage of their data.
Privacy and security	
Reliability and safety	

Explanation

Box 1: Reliability and safety

To build trust, it's critical that AI systems operate reliably, safely, and consistently under normal circumstances and in unexpected conditions. These systems should be able to operate as they were originally designed, respond safely to unanticipated conditions, and resist harmful manipulation.

Box 2: accountability

Box 3: Privacy and security

As AI becomes more prevalent, protecting privacy and securing important personal and business information is becoming more critical and complex. With AI, privacy and data security issues require especially close attention because access to data is essential for AI systems to make accurate and informed predictions and decisions about people. AI systems must comply with privacy laws that require transparency about the collection, use, and storage of data and mandate that consumers have appropriate controls to choose how their data is used

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

NEW QUESTION # 322

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

Answer: B,E

Explanation:

According to the Microsoft Azure AI Fundamentals (AI-900) official study guide and the Microsoft Learn module "Describe core concepts of machine learning on Azure", when building a predictive machine learning model, features are the input variables used by the algorithm to predict the target label. The target label is the output or value the model is trained to predict.

In this dataset, the target variable is clearly the Income Range, since the goal is to predict a customer's income bracket. Therefore, Income Range (D) is the label, not a feature. Features must be other attributes that help the model make this prediction.

The fields Education Level (A) and Age (C) are the most relevant features because both can logically and statistically influence income level.

* Education Level is a categorical variable that often correlates strongly with income. Individuals with higher education levels tend to earn more on average, making this an important predictor.

* Age is a numerical variable that typically affects income level due to factors such as experience and career progression.

By contrast:

* First Name (E) and Last Name (B) are irrelevant as features because they are identifiers, not meaningful predictors of income.

Including them could lead to bias or model overfitting without contributing to accurate predictions.

Hence, according to AI-900 principles, the features used to train a model predicting income range would be Education Level and Age.

NEW QUESTION # 323

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.	☐	☐

Answer:

Explanation:

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.	☒	☐

NEW QUESTION # 324

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