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Microsoft Azure **Certification Details**

AI-900: Microsoft Azure AI Fundamentals

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|  Prior Certification Not Required |  Exam Validity Lifetime |  Exam Fee \$99 USD |
|  Exam Duration 90 Minutes |  No. of Questions 40-60 Questions |  Passing Marks 700 |
|  Recommended Experience Foundational knowledge of machine learning, artificial intelligence concepts, and related Microsoft Azure services |  Exam Format Multiple choice, Drag & drop, Case studies, Multiple response | |
|  Languages English, Japanese, Chinese (Simplified), Korean, German, French, Spanish, Portuguese (Brazil), Russian, Indonesian (Indonesia), Arabic (Saudi Arabia), Chinese (Traditional), Italian | | |

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Microsoft AI-900 exam, also known as the Microsoft Azure AI Fundamentals exam, is an entry-level certification exam designed to validate a candidate's foundational knowledge of Artificial Intelligence (AI) and Machine Learning (ML) concepts, as well as their ability to work with Microsoft Azure's AI services. AI-900 Exam is intended for individuals who are interested in learning about AI and ML principles and how they can be applied to solve business problems.

Microsoft Azure AI Fundamentals Sample Questions (Q301-Q306):

NEW QUESTION # 301

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

Answer Area**Microsoft**

Natural language processing can be used to

- classify email messages as work-related or personal.
- predict the number of future car rentals.
- predict which website visitors will make a transaction.
- stop a process in a factory when extremely high temperatures are registered.

Answer:

Explanation:

Answer Area**Microsoft**

Natural language processing can be used to

- classify email messages as work-related or personal.
- predict the number of future car rentals.
- predict which website visitors will make a transaction.
- stop a process in a factory when extremely high temperatures are registered.

Reference:

<https://docs.microsoft.com/en-us/azure/architecture/data-guide/technology-choices/natural-language-processing>**NEW QUESTION # 302**

You plan to apply Text Analytics API features to a technical support ticketing system.

Match the Text Analytics API features to the appropriate natural language processing scenarios.

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

NOTE: Each correct selection is worth one point.

API Features

Entity recognition

Key phrase extraction

Language detection

Sentiment analysis

Answer Area

API Feature

API Feature

API Feature

Understand how upset a customer is based on the text contained in the support ticket.

Summarize important information from the support ticket.

Extract key dates from the support ticket.

**Microsoft****Answer:**

Explanation:

API Features

| |
|-----------------------|
| Entity recognition |
| Key phrase extraction |
| Language detection |
| Sentiment analysis |

Answer Area

| |
|-----------------------|
| Sentiment analysis |
| Key phrase extraction |

Understand how upset a customer is based on the text contained in the support ticket.

Summarize important information from the support ticket.

| |
|--------------------|
| Entity recognition |
|--------------------|

Extract key dates from the support ticket.

Reference:

<https://docs.microsoft.com/en-us/azure/architecture/data-guide/technology-choices/natural-language-processing>

<https://azure.microsoft.com/en-us/services/cognitive-services/text-analytics>

NEW QUESTION # 303

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 Microsoft

| Statements | Yes | No |
|--|-----------------------|-----------------------|
| Object detection can identify the location of a damaged product in an image. | <input type="radio"/> | <input type="radio"/> |
| Object detection can identify multiple instances of a damaged product in an image. | <input type="radio"/> | <input type="radio"/> |
| Object detection can identify multiple types of damaged products in an image. | <input type="radio"/> | <input type="radio"/> |

Answer:

Explanation:

Answer Area Microsoft

| Statements | Yes | No |
|--|----------------------------------|----------------------------------|
| Object detection can identify the location of a damaged product in an image. | <input checked="" type="radio"/> | <input type="radio"/> |
| Object detection can identify multiple instances of a damaged product in an image. | <input type="radio"/> | <input checked="" type="radio"/> |
| Object detection can identify multiple types of damaged products in an image. | <input checked="" type="radio"/> | <input type="radio"/> |

Explanation:

Answer Area Microsoft

| Statements | Yes | No |
|--|----------------------------------|----------------------------------|
| Object detection can identify the location of a damaged product in an image. | <input checked="" type="radio"/> | <input type="radio"/> |
| Object detection can identify multiple instances of a damaged product in an image. | <input checked="" type="radio"/> | <input type="radio"/> |
| Object detection can identify multiple types of damaged products in an image. | <input type="radio"/> | <input checked="" type="radio"/> |

NEW QUESTION # 304

You are creating an app to help employees write emails and reports based on user prompts. What should you use?

- A. Azure AI Vision
- B. Azure OpenAI in Foundry Models**
- C. Azure AI Speech
- D. Azure Machine Learning studio

Answer: B

NEW QUESTION # 305

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

Ensuring that the numeric variables in training data are on a similar scale is an example of

| |
|----------------------|
| data ingestion. |
| feature engineering. |
| feature selection. |
| model training. |

Answer:

Explanation:

Ensuring that the numeric variables in training data are on a similar scale is an example of

| |
|----------------------|
| data ingestion. |
| feature engineering. |
| feature selection. |
| model training. |

Explanation:

Ensuring that the numeric variables in training data are on a similar scale is an example of

| |
|----------------------|
| data ingestion. |
| feature engineering. |
| feature selection. |
| model training. |

According to the Microsoft Azure AI Fundamentals (AI-900) official study guide and the Microsoft Learn module "Prepare data for machine learning", feature engineering refers to the process of transforming raw data into meaningful features that can be effectively used by machine learning algorithms. This includes steps such as scaling, normalization, encoding categorical variables, handling missing values, and creating new features derived from existing ones.

The question states:

"Ensuring that the numeric variables in training data are on a similar scale." This directly describes a data normalization or standardization step, which is a core component of feature engineering. The purpose of scaling numeric variables is to ensure that all features contribute equally to the model's learning process. Without normalization, features with large numeric ranges (such as "income in dollars") could dominate smaller-scale features (like "age in years"), leading to biased model performance.

In Azure Machine Learning, this is typically done using the Normalize Data module or transformations in the data preparation stage. Microsoft Learn explains that normalization and feature scaling are applied before model training to ensure that gradient-based algorithms (such as regression or neural networks) converge more efficiently and produce more accurate results.

The other options are not correct:

- * Data ingestion refers to collecting and importing data into a system
- * Feature selection involves choosing the most relevant features, not scaling them
- * Model training is the phase where the algorithm learns patterns from the processed data, which occurs after feature engineering. Therefore, ensuring that numeric variables are on a similar scale is a step in Feature Engineering.

NEW QUESTION # 306

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