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Study guide for Exam AI-900: Microsoft Azure AI Fundamentals | Microsoft Learn

Study guide for Exam AI-900: Microsoft Azure AI Fundamentals

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Purpose of this document

This study guide should help you understand what to expect on the exam and includes a summary of the topics the exam might cover and links to additional resources. The information and materials in this document should help you focus your studies as you prepare for the exam.

Expand table

Useful links	Description
Review the skills measured as of April 24, 2024	This list represents the skills measured AFTER the date provided. Study this list if you plan to take the exam AFTER that date.
Review the skills measured prior to April 24, 2024	Study this list of skills if you take your exam PRIOR to the date provided.
Change log	You can go directly to the change log if you want to see the changes that will be made on the date provided.
How to earn the certification	Some certifications only require passing one exam, while others require passing multiple exams.
Certification renewal	Microsoft associate, expert, and specialty certifications expire annually. You can renew by passing a free online assessment on Microsoft Learn.
Your Microsoft Learn profile	Connecting your certification profile to Microsoft Learn allows you to schedule and renew exams and share and print certificates.
Exam scoring and score reports	A score of 700 or greater is required to pass.
Exam sandbox	You can explore the exam environment by visiting our exam sandbox.
Request accommodations	If you use assistive devices, require extra time, or need modification to any part of the exam experience, you can request an

<https://learn.microsoft.com/en-us/certifications/certifications/resources/study-guides/ai-900>

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As we all know, AI-900 certificates are an essential part of one's resume, which can make your resume more prominent than others, making it easier for you to get the job you want. For example, the social acceptance of AI-900 Certification now is higher and higher. If you also want to get this certificate to increase your job opportunities, please take a few minutes to see our AI-900 training materials.

Exam Topics

The potential candidates for this certification test must develop their skills in its topics before attempting it. It is recommended to go through the official webpage to review the detailed objectives. Microsoft updates the topics of its exams regularly, so studying the latest domains is very important to your success in the test. Thus, Microsoft AI-900 covers the following sections:

Describe AI Considerations and Workloads (15-20%)

The first topic evaluates the following skills:

- Identify the common AI Workloads features – You should be able to identify a variety of workloads, such as forecasting/prediction, computer vision, and conversational AI. The subsection also covers the characteristics of anomaly detection workloads, knowledge mining, and natural language processing workloads.

- Identify the guiding principles associated with responsible Artificial Intelligence – This one will evaluate the candidates' ability to explain some concepts. These include considerations of safety and reliability in AI solutions and considerations for fairness in AI solutions. It also covers considerations for security and privacy, transparency, inclusiveness, and accountability within an AI solution.

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Microsoft AI-900 Exam is an excellent certification for individuals who want to demonstrate their knowledge and skills in the field of artificial intelligence and machine learning. It provides a great starting point for individuals who want to pursue a career in this field and is also helpful for professionals who want to stay up-to-date with the latest technological advancements.

Microsoft Azure AI Fundamentals Sample Questions (Q105-Q110):

NEW QUESTION # 105

A smart device that responds to the question. "What is the stock price of Contoso, Ltd.?" is an example of which AI workload?

- A. anomaly detection
- B. computer vision
- C. natural language processing
- D. knowledge mining

Answer: D

NEW QUESTION # 106

Which two scenarios are examples of a conversational AI workload? Each correct answer presents a complete solution.

NOTE: Each correct selection is worth one point.

- A. a chatbot that provides users with the ability to find answers on a website by themselves
- B. a service that creates frequently asked questions (FAQ) documents by crawling public websites
- C. telephone voice menus to reduce the load on human resources
- D. a telephone answering service that has a pre-recorder message

Answer: A,C

Explanation:

Section: Describe features of conversational AI workloads on Azure

Explanation:

B: A bot is an automated software program designed to perform a particular task. Think of it as a robot without a body.

C: Automated customer interaction is essential to a business of any size. In fact, 61% of consumers prefer to communicate via speech, and most of them prefer self-service. Because customer satisfaction is a priority for all businesses, self-service is a critical facet of any customer-facing communications strategy.

Incorrect Answers:

D: Early bots were comparatively simple, handling repetitive and voluminous tasks with relatively straightforward algorithmic logic. An example would be web crawlers used by search engines to automatically explore and catalog web content.

Reference:

<https://docs.microsoft.com/en-us/azure/architecture/data-guide/big-data/ai-overview>

<https://docs.microsoft.com/en-us/azure/architecture/solution-ideas/articles/interactive-voice-response-bot>

NEW QUESTION # 107

Select the answer that correctly completes the sentence



Answer:

Explanation:

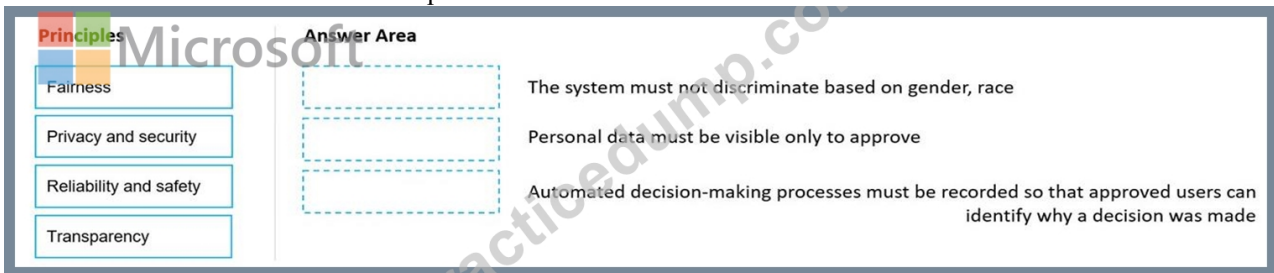


NEW QUESTION # 108

Match the principles of responsible AI to appropriate requirements.

To answer, drag the appropriate principles from the column on the left to its requirement on the right. Each principle may be used once, more than once, or not at all. You may need to drag the split bar between panes or scroll to view content.

NOTE: Each correct selection is worth one point.



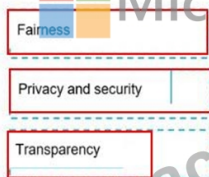
Answer:

Explanation:

Principles



Answer Area



The system must not discriminate based on gender, race
 Personal data must be visible only to approve
 Automated decision-making processes must be recorded so that approved users can identify why a decision was made

Reference:

- <https://docs.microsoft.com/en-us/azure/cloud-adoption-framework/innovate/best-practices/trusted-ai>
- <https://docs.microsoft.com/en-us/learn/modules/responsible-ai-principles/4-guiding-principles>

NEW QUESTION # 109

You have an Azure Machine Learning pipeline that contains a Split Data module. The Split Data module outputs to a Train Model module and a Score Model module. What is the function of the Split Data module?

- A. diverting records that have missing data
- B. selecting columns that must be included in the model
- C. creating training and validation datasets
- D. scaling numeric variables so that they are within a consistent numeric range

Answer: C

Explanation:

According to the Microsoft Azure AI Fundamentals (AI-900) official study guide and Microsoft Learn module "Identify features of Azure Machine Learning", the Split Data module in an Azure Machine Learning pipeline is used to divide a dataset into two or more subsets-typically a training dataset and a testing (or validation) dataset. This is a fundamental step in the supervised machine learning workflow because it allows for accurate evaluation of the model's performance on data it has not seen during training.

In a typical workflow, the data flows as follows:

* The dataset is first preprocessed (cleaned, normalized, or transformed).

* The Split Data module divides this dataset into two parts - one for training the model and another for testing or scoring the model's accuracy.

* The Train Model module uses the training data output from the Split Data module to learn patterns and build a predictive model.

* The Score Model module then takes the trained model and applies it to the test data output to measure how well the model performs on unseen data.

The Split Data module typically uses a defined ratio (such as 0.7:0.3 or 70% for training and 30% for testing).

This ensures that the trained model can generalize well to new, real-world data rather than simply memorizing the training examples.

Now, addressing the incorrect options:

* A. Selecting columns that must be included in the model is done by the Select Columns in Dataset module.

* C. Diverting records that have missing data is handled by the Clean Missing Data module.

* D. Scaling numeric variables is done using the Normalize Data or Edit Metadata modules.

Therefore, based on the official AI-900 learning objectives, the verified and most accurate answer is B. creating training and validation datasets.

NEW QUESTION # 110

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