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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/training/certifications/resources/study-guides/ai-900>

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It is browser-based; therefore no need to install it, and you can start practicing for the Microsoft Azure AI Fundamentals (AI-900) exam by creating the Microsoft AI-900 practice test. You don't need to install any separate software or plugin to use it on your system to practice for your actual Microsoft Azure AI Fundamentals (AI-900) exam. Braindumpsqa Microsoft Azure AI Fundamentals (AI-900) web-based practice software is supported by all well-known browsers like Chrome, Firefox, Opera, Internet Explorer, etc.

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>> Exam AI-900 Reference <<

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There are too many variables and unknown temptation in life. So we should lay a solid foundation when we are still young. Are you ready? Working in the IT industry, do you feel a sense of urgency? Braindumpsqa's Microsoft AI-900 Exam Training materials is the best training materials. Select the Braindumpsqa, then you will open your door to success. Come on!

Earning the Microsoft AI-900 certification can be a significant advantage for individuals who want to work in AI-related roles or want to progress in their careers. Microsoft Azure AI Fundamentals certification demonstrates the individual's expertise in AI and machine learning concepts and their ability to apply them to business scenarios using Microsoft Azure services. Additionally, the certification can be useful for individuals who want to start their own AI-related businesses or want to contribute to the development of AI-based solutions in their organizations.

Passing the AI-900 Exam will demonstrate your ability to understand the basic concepts and principles of AI and its applications in the cloud. Microsoft Azure AI Fundamentals certification can help you stand out in the job market and increase your chances of getting hired for roles related to AI and machine learning. It can also help you advance your career by providing a solid foundation for further learning and certifications in this field.

Microsoft Azure AI Fundamentals Sample Questions (Q143-Q148):

NEW QUESTION # 143

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 the Speech service to transcribe a call to text.	<input type="radio"/>	<input type="radio"/>	
You can use the Text Analytics service to extract key entities from a call transcript.	<input type="radio"/>	<input type="radio"/>	
You can use the Speech service to translate the audio of a call to a different language.	<input type="radio"/>	<input type="radio"/>	

Answer:

Explanation:

Answer Area			
Statements	Yes	No	
You can use the Speech service to transcribe a call to text.	<input checked="" type="radio"/>	<input type="radio"/>	
You can use the Text Analytics service to extract key entities from a call transcript.	<input checked="" type="radio"/>	<input type="radio"/>	
You can use the Speech service to translate the audio of a call to a different language.	<input checked="" type="radio"/>	<input type="radio"/>	

Explanation:

Answer Area		Microsoft	
Statements	Yes	No	
You can use the Speech service to transcribe a call to text.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
You can use the Text Analytics service to extract key entities from a call transcript.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
You can use the Speech service to translate the audio of a call to a different language.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	

Reference:

<https://docs.microsoft.com/en-gb/azure/cognitive-services/text-analytics/overview>

<https://azure.microsoft.com/en-gb/services/cognitive-services/speech-services/> You can use the Speech service to transcribe a call to text - Yes we can use Speech to Text API to achieve this

<https://docs.microsoft.com/en-us/learn/modules/recognize-synthesize-speech/1-introduction> You can use a speech service to translate the audio of a call to a different language - Yes we can use Speech translation service to achieve this The Speech service includes the following application programming interfaces (APIs):

Speech-to-text - used to transcribe speech from an audio source to text format.

Text-to-speech - used to generate spoken audio from a text source.

Speech Translation - used to translate speech in one language to text or speech in another.

<https://docs.microsoft.com/en-us/learn/modules/translate-text-with-translation-service/2-get-started-azure> You can use text analytics service to extract key entities from a call transcript - Yes Text Analytics API helps to achieve this

<https://docs.microsoft.com/en-us/learn/modules/analyze-text-with-text-analytics-service/2-get-started-azure>

NEW QUESTION # 144

You need to generate cartoons for use in a brochure. Each cartoon will be based on a text description. Which Azure OpenAI model should you use?

- A. DALL-E
- B. GPT-4
- C. GPT-3.5
- D. Codex

Answer: A

NEW QUESTION # 145

For each of the following statements, select Yes if the statement is true. Otherwise, select No.

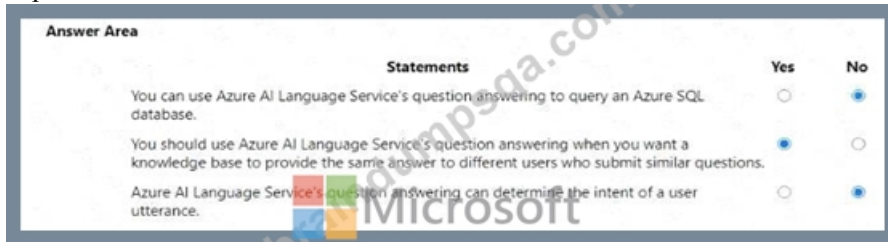
NOTE: Each correct selection is worth one point.

Answer Area		Microsoft	
Statements	Yes	No	
You can use Azure AI Language Service's question answering to query an Azure SQL database.	<input type="checkbox"/>	<input type="checkbox"/>	
You should use Azure AI Language Service's question answering when you want a knowledge base to provide the same answer to different users who submit similar questions.	<input type="checkbox"/>	<input type="checkbox"/>	
Azure AI Language Service's question answering can determine the intent of a user utterance.	<input type="checkbox"/>	<input type="checkbox"/>	

Answer:

Explanation:

Explanation:



The Azure AI Language Service includes several natural language processing features, such as question answering, language understanding, entity recognition, sentiment analysis, and more. Each feature serves a distinct purpose, and understanding their differences is key to selecting the correct AI workload.

* "You can use Azure AI Language Service's question answering to query an Azure SQL database." - NOThe question answering feature is designed to retrieve answers from text-based knowledge sources (for example, FAQs, documents, or website content). It cannot directly query a database such as Azure SQL. Querying databases requires Azure Cognitive Search, Azure OpenAI, or custom integration using application logic, not the question answering model.

* "You should use Azure AI Language Service's question answering when you want a knowledge base to provide the same answer to different users who submit similar questions." - YESThis is the primary use case of question answering. It allows developers to build a knowledge base (KB) of predefined question-answer pairs or extract answers from documents. When users submit semantically similar questions (e.g., "What are your office hours?" or "When are you open?"), the service returns the same consistent answer.

* "Azure AI Language Service's question answering can determine the intent of a user utterance." - NODetermining user intent is part of the Language Understanding (LUIS) capability, not question answering. LUIS models map natural language inputs to intents and entities, typically used in bots or applications that execute tasks (like booking a meeting or checking weather).

Hence, correct answers are: No, Yes, No - aligning with the AI-900 official study guide and Microsoft Learn module "Identify Azure AI Language capabilities."

NEW QUESTION # 146

Match the machine learning tasks to the appropriate scenarios.

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

NOTE: Each correct selection is worth one point.

Answer:

Explanation:

Explanation:

Box 1: Model evaluation

The Model evaluation module outputs a confusion matrix showing the number of true positives, false negatives, false positives, and true negatives, as well as ROC, Precision/Recall, and Lift curves.

Box 2: Feature engineering

Feature engineering is the process of using domain knowledge of the data to create features that help ML algorithms learn better. In Azure Machine Learning, scaling and normalization techniques are applied to facilitate feature engineering. Collectively, these techniques and feature engineering are referred to as featurization.

Note: Often, features are created from raw data through a process of feature engineering. For example, a time stamp in itself might not be useful for modeling until the information is transformed into units of days, months, or categories that are relevant to the problem, such as holiday versus working day.

Box 3: Feature selection

In machine learning and statistics, feature selection is the process of selecting a subset of relevant, useful features to use in building an analytical model. Feature selection helps narrow the field of data to the most valuable inputs. Narrowing the field of data helps reduce noise and improve training performance.

Reference:

<https://docs.microsoft.com/en-us/azure/machine-learning/studio/evaluate-model-performance>

<https://docs.microsoft.com/en-us/azure/machine-learning/concept-automated-ml>

NEW QUESTION # 147

Select the answer that correctly completes the sentence.

myportal.utt.edu.tt, myportal.utt.edu.tt, myportal.utt.edu.tt, myportal.utt.edu.tt, www.stes.tyc.edu.tw, myportal.utt.edu.tt,
myportal.utt.edu.tt, myportal.utt.edu.tt, myportal.utt.edu.tt, myportal.utt.edu.tt, myportal.utt.edu.tt, myportal.utt.edu.tt,
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