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Microsoft Azure

Certification Details

AI-900: Microsoft Azure AI Fundamentals



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 is an excellent starting point for individuals who want to pursue a career in AI and ML or want to expand their knowledge and skills in this field. It is also suitable for professionals in non-technical roles who want to understand the basics of AI and how it can be used to drive business growth and innovation. Passing AI-900 Exam can help candidates demonstrate their expertise in AI concepts and their ability to work with Azure AI services, making them stand out in a competitive job market.

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The AI-900 Exam covers various topics, including the fundamentals of AI, Azure AI services, computer vision, natural language processing, and conversational AI. AI-900 exam is designed to test your ability to work with Azure AI services, such as Azure Cognitive Services and Azure Machine Learning. You will also need to demonstrate your knowledge of key Azure tools that support AI and ML workloads, such as Azure Notebooks and Azure Databricks.

Microsoft Azure AI Fundamentals Exam Certification Details:

Exam Name	Microsoft Certified - Azure AI Fundamentals
Books / Training	Course AI-900T00: Microsoft Azure AI Fundamentals
Exam Price	\$99 (USD)
Passing Score	700 / 1000
Number of Questions	40-60
Duration	60 mins
Schedule Exam	Pearson VUE
Exam Code	AI-900

Microsoft Azure AI Fundamentals Sample Questions (Q179-Q184):

NEW QUESTION # 179

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

Answer:

Explanation:

Explanation:

Natural language processing (NLP) is used for tasks such as sentiment analysis, topic detection, language detection, key phrase extraction, and document categorization.

Reference:

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

NEW QUESTION # 180

Match the AI workload to the appropriate task.

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

NOTE: Each correct match is worth one point.

Answer:

Explanation:

Explanation:

This question tests your understanding of AI workloads as described in the Microsoft Azure AI Fundamentals (AI-900) study guide. Each Azure AI workload is designed to handle specific types of data and tasks: text, images, documents, or content generation.

* Extract data from medical admission forms for import into a patient tracking database # Azure AI Document Intelligence Formerly known as Form Recognizer, this service belongs to the Azure AI Document Intelligence workload. It extracts key-value pairs, tables, and textual information from structured and semi-structured documents such as forms, invoices, and admission sheets. For medical forms, Document Intelligence can identify fields like patient name, admission date, and diagnosis and export them into structured formats for database import.

* Automatically create drafts for a monthly newsletter # Generative AI This task involves creating original written content, which is a capability of Generative AI. Microsoft's Azure OpenAI Service uses large language models (like GPT-4) to generate human-like text, summaries, or articles. Generative AI workloads are ideal for automating creative writing, drafting newsletters, producing blogs, or summarizing reports.

* Analyze aerial photos to identify flooded areas # Computer Vision Computer Vision workloads involve analyzing and interpreting visual data from images or videos. This includes detecting objects, classifying scenes, and identifying patterns such as flooded regions in aerial imagery. Azure's Computer Vision or Custom Vision services can be trained to detect water coverage or terrain changes using image recognition techniques.

Thus, the correct matches are:

* Azure AI Document Intelligence # Extract medical form data

* Generative AI # Create newsletter drafts

* Computer Vision # Identify flooded areas from aerial photos

NEW QUESTION # 181

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:

Explanation:

Explanation

Graphical user interface, text, application, email Description automatically generated

NEW QUESTION # 182

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.

□

Answer:

Explanation:

□
Explanation:

□
The correct order of processes before deploying a model as a service is:

(1) Data preparation # (2) Model training # (3) Model evaluation.

According to the Microsoft Azure AI Fundamentals (AI-900) official study guide and Microsoft Learn module "Explore the machine learning process", machine learning follows a structured lifecycle that involves several sequential stages. Before a model can be deployed, the data must be properly prepared, the model must be trained, and then its performance must be evaluated to ensure accuracy and reliability.

* Data Preparation: The first stage involves collecting, cleaning, and transforming raw data into a usable format. Azure Machine Learning provides tools like Data Wrangler, Data Labeling, and Data Transformation pipelines to ensure the dataset is accurate and consistent. As per Microsoft Learn, "data preparation is essential to remove noise, handle missing values, and split the dataset into training and testing sets." This step ensures the model learns from quality input.

* Model Training: In this step, algorithms are applied to the prepared training data to create a predictive model. The system learns patterns and relationships from the data. Azure Machine Learning allows model training using AutoML, custom code, or designer pipelines. The training process produces a model that can make predictions, but it still needs to be tested before deployment.

* Model Evaluation: Once trained, the model's performance is tested against unseen (test) data.

Evaluation metrics like accuracy, precision, recall, and F1-score are analyzed to verify if the model meets business and performance requirements. Microsoft Learn defines this stage as "assessing the model's performance to determine its readiness for deployment."

After these three processes, the model can then be deployed as a web service using Azure Machine Learning endpoints. Model retraining happens later when new data becomes available, and data encryption is a security process, not part of model development steps.

NEW QUESTION # 183

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:

Explanation:

□
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.

Reference:

<https://azure.microsoft.com/es-es/blog/machine-assisted-text-classification-on-content-moderator-public-preview>

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

NEW QUESTION # 184

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