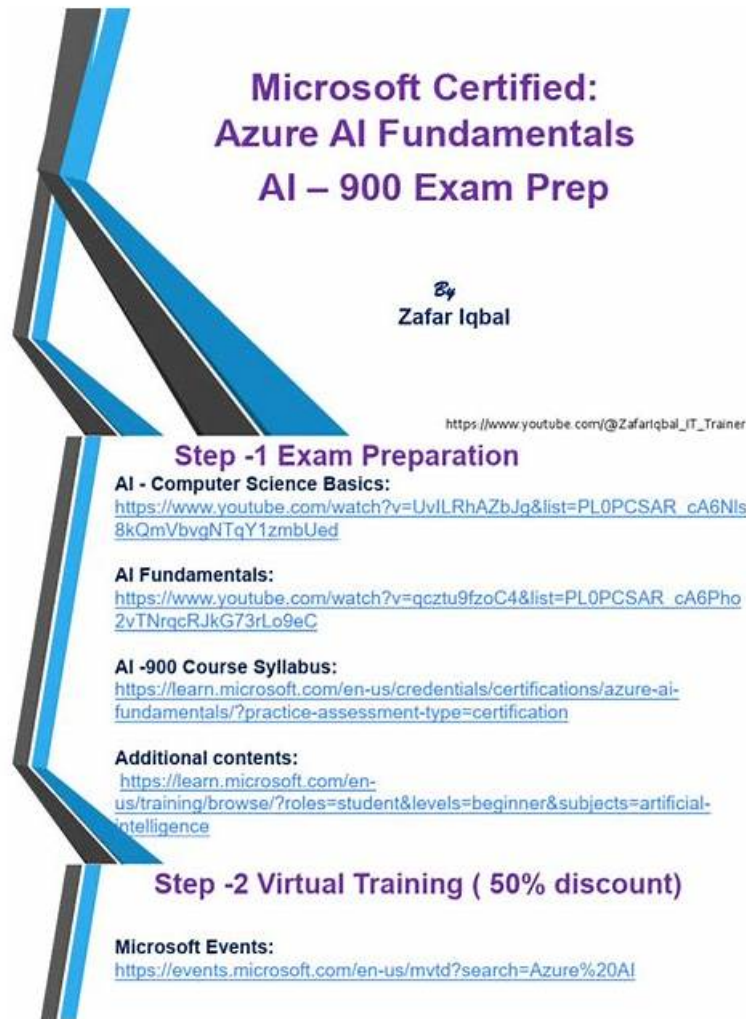


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By
Zafar Iqbal

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Requisites of Microsoft AI-900 Exam

In order to take the Microsoft AI-900 exam, you must have a current Azure subscription. You also need a valid Microsoft ID. In addition, be sure to pass the following exams:

- AZ-200: Azure Fundamentals Assessment
- AZ-100: Fundamentals of Azure

Microsoft Azure AI Fundamentals Sample Questions (Q289-Q294):

NEW QUESTION # 289

What is a use case for classification?

- A. predicting how many cups of coffee a person will drink based on how many hours the person slept the previous night.
- **B. analyzing the contents of images and grouping images that have similar colors**
- C. predicting whether someone uses a bicycle to travel to work based on the distance from home to work
- D. predicting how many minutes it will take someone to run a race based on past race times

Answer: B

Explanation:

Classification is a machine learning method that uses data to determine the category, type, or class of an item or row of data.

Reference:

<https://docs.microsoft.com/en-us/azure/machine-learning/algorithm-module-reference/linear-regression>

<https://docs.microsoft.com/en-us/azure/machine-learning/studio-module-reference/machine-learning-initialize-model-clustering>

NEW QUESTION # 290

Match the tool to the Azure Machine Learning task.

To answer, drag the appropriate tool from the column on the left to its tasks on the right. Each tool may be used once, more than once, or not at all NOTE: Each correct match is worth one point.

Tools	Answer Area
Automated machine learning (automated ML)	Tool: Create a Machine Learning workspace
The Azure portal	Tool: Use a drag-and-drop interface used to train and deploy models
Machine Learning designer	Tool: Use a wizard to select configurations for a machine learning run

Answer:

Explanation:

Tools	Answer Area
Automated machine learning (automated ML)	Automated machine learning (automated ML): Use a wizard to select configurations for a machine learning run
The Azure portal	The Azure portal: Create a Machine Learning workspace
Machine Learning designer	Machine Learning designer: Use a drag-and-drop interface used to train and deploy models

Explanation:

ANSWER AREA
The Azure portal: Create a Machine Learning workspace
Machine Learning designer: Use a drag-and-drop interface used to train and deploy models
Automated machine learning (automated ML): Use a wizard to select configurations for a machine learning run

The correct matching aligns directly with the Microsoft Azure AI Fundamentals (AI-900) official study guide and Microsoft Learn modules under "Identify features of Azure Machine Learning". Azure Machine Learning provides a suite of tools that serve different functions within the model development lifecycle - from creating workspaces, to training models, to automating experimentation.

* The Azure portal # Create a Machine Learning workspace. The Azure portal is a web-based graphical interface for managing all

Azure resources. According to Microsoft Learn, you use the portal to create and configure the Azure Machine Learning workspace, which acts as the central environment where datasets, experiments, models, and compute resources are organized. Creating a workspace through the portal involves specifying a subscription, resource group, and region - tasks that are part of the setup stage rather than model development.

* Machine Learning designer # Use a drag-and-drop interface used to train and deploy models. The Machine Learning designer (formerly "Azure ML Studio (classic)") provides a visual, no-code/low-code interface for building, training, and deploying machine learning pipelines. The designer uses a drag-and-drop workflow where users connect modules representing data transformations, model training, and evaluation. This tool is ideal for beginners and those who want to quickly experiment with machine learning concepts without writing code.

* Automated machine learning (Automated ML) # Use a wizard to select configurations for a machine learning run. Automated ML simplifies model creation by automatically selecting algorithms, hyperparameters, and data preprocessing options. Users interact through a guided wizard (within the Azure Machine Learning studio) that walks them through configuration steps such as selecting datasets, target columns, and performance metrics. The system then iteratively trains and evaluates multiple models to recommend the best-performing one.

Together, these tools streamline the machine learning workflow:

- * Azure portal for setup and resource management,
- * Machine Learning designer for visual model creation, and
- * Automated ML for guided, automated model selection and tuning

NEW QUESTION # 291

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
Generative AI enables software applications to generate new content, such as language dialogs and images.	<input type="radio"/>	<input type="radio"/>
The difference between a large language model (LLM) and a small language model (SLM) is the number of variables in the model.	<input type="radio"/>	<input type="radio"/>
Generative AI is a type of supervised learning.	<input type="radio"/>	<input type="radio"/>

Answer:

Explanation:

Statements	Yes	No
Generative AI enables software applications to generate new content, such as language dialogs and images.	<input checked="" type="radio"/>	<input type="radio"/>
The difference between a large language model (LLM) and a small language model (SLM) is the number of variables in the model.	<input checked="" type="radio"/>	<input type="radio"/>
Generative AI is a type of supervised learning.	<input type="radio"/>	<input checked="" type="radio"/>

Explanation:

Statements	Yes	No
Generative AI enables software applications to generate new content, such as language dialogs and images.	<input checked="" type="radio"/>	<input type="radio"/>
The difference between a large language model (LLM) and a small language model (SLM) is the number of variables in the model.	<input checked="" type="radio"/>	<input type="radio"/>
Generative AI is a type of supervised learning.	<input type="radio"/>	<input checked="" type="radio"/>

"Generative AI enables software applications to generate new content, such as language dialogs and images."

- YES

This statement is true. According to the Microsoft Azure AI Fundamentals (AI-900) study guide and Microsoft Learn

documentation, Generative AI refers to systems capable of creating new content such as text, audio, images, video, and code. Models like GPT, DALL E, and Codex use deep learning to generate human-like responses, natural conversations, or creative media. This is a key differentiator between generative and discriminative AI - generative AI produces new data, while discriminative AI categorizes or analyzes existing data.


"The difference between a large language model (LLM) and a small language model (SLM) is the number of variables in the model." - YES This statement is true. The primary distinction between an LLM and an SLM lies in the scale of parameters (variables) within the neural network. LLMs contain billions or even trillions of parameters, which enable them to capture complex linguistic patterns and perform broader tasks. SLMs have fewer parameters, making them faster but less capable of handling complex, context-rich tasks.

"Generative AI is a type of supervised learning." - NO

This statement is false. Generative AI models are typically trained using unsupervised or self-supervised learning methods. They learn by predicting missing or next elements in large text or image datasets rather than relying on labeled input-output pairs, which are used in supervised learning.

NEW QUESTION # 292


Select the answer that correctly completes the sentence.

Azure Machine Learning designer lets you create machine learning models by  _____

- adding and connecting modules on a visual canvas.
- adding and connecting modules on a visual canvas.
- automatically performing common data preparation tasks.
- automatically selecting an algorithm to build the most accurate model.
- using a code-first notebook experience.

Answer:

Explanation:

Azure Machine Learning designer lets you create machine learning models by  _____

- adding and connecting modules on a visual canvas.
- adding and connecting modules on a visual canvas.
- automatically performing common data preparation tasks.
- automatically selecting an algorithm to build the most accurate model.
- using a code-first notebook experience.

NEW QUESTION # 293

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
	Automated machine learning is the process of automating the time-consuming, iterative tasks of machine learning model development.	<input type="radio"/>	<input type="radio"/>
	Automated machine learning can automatically infer the training data from the use case provided.	<input type="radio"/>	<input type="radio"/>
	Automated machine learning works by running multiple training iterations that are scored and ranked by the metrics you specify.	<input type="radio"/>	<input type="radio"/>
	Automated machine learning enables you to specify a dataset and will automatically understand which label to predict.	<input type="radio"/>	<input type="radio"/>

Answer:

Explanation:

Answer Area

Statements	Yes	No
Azure Bot Service and Azure Cognitive Services can be integrated.	<input checked="" type="radio"/>	<input type="radio"/>
Azure Bot Service engages with customers in a conversational manner.	<input checked="" type="radio"/>	<input type="radio"/>
Azure Bot Service can import frequently asked questions (FAQ) to question and answer sets.	<input type="radio"/>	<input checked="" type="radio"/>

Explanation

Answer Area

Statements	Yes	No
Automated machine learning is the process of automating the time-consuming, iterative tasks of machine learning model development.	<input checked="" type="radio"/>	<input type="radio"/>
Automated machine learning can automatically infer the training data from the use case provided.	<input type="radio"/>	<input checked="" type="radio"/>
Automated machine learning works by running multiple training iterations that are scored and ranked by the metrics you specify.	<input checked="" type="radio"/>	<input type="radio"/>
Automated machine learning enables you to specify a dataset and will automatically understand which label to predict.	<input type="radio"/>	<input checked="" type="radio"/>

Box 1: Yes

Automated machine learning, also referred to as automated ML or AutoML, is the process of automating the time consuming, iterative tasks of machine learning model development. It allows data scientists, analysts, and developers to build ML models with high scale, efficiency, and productivity all while sustaining model quality.

Box 2: No

Box 3: Yes

During training, Azure Machine Learning creates a number of pipelines in parallel that try different algorithms and parameters for you. The service iterates through ML algorithms paired with feature selections, where each iteration produces a model with a training score. The higher the score, the better the model is considered to "fit" your data. It will stop once it hits the exit criteria defined in the experiment.

Box 4: No

Apply automated ML when you want Azure Machine Learning to train and tune a model for you using the target metric you specify. The label is the column you want to predict.

Reference:

<https://azure.microsoft.com/en-us/services/machine-learning/automatedml/#features>

NEW QUESTION # 294

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