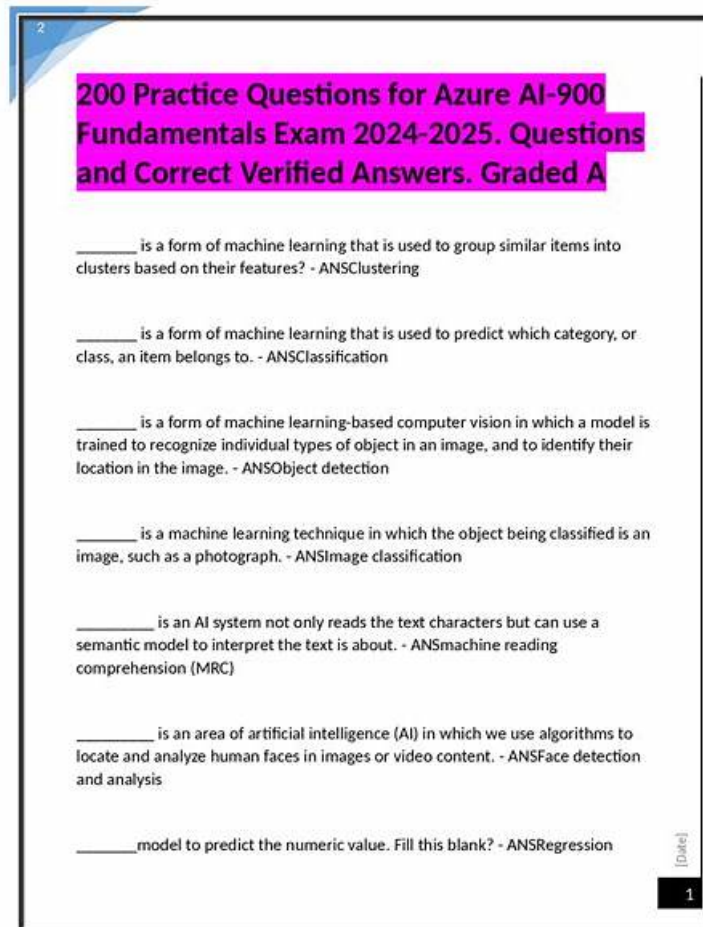


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Microsoft AI-900 Exam Syllabus Topics:

Topic	Details
Topic 1	Describe Artificial Intelligence workloads and considerations: It identifies specifications of common AI workloads and guiding principles for responsible AI.
Topic 2	Describe features of Natural Language Processing (NLP) workloads on Azure: In this topic, questions about common NLP Workload Scenarios features, Azure tools, and services for NLP workloads appear.
Topic 3	Describe features of generative AI workloads on Azure: Features of generative AI solutions and capabilities of Azure OpenAI Service are discussed in this topic.
Topic 4	Describe features of computer vision workloads on Azure: This topic discusses identifying common types of computer vision solution, Azure tools and services for computer vision tasks.

Topic 5	Describe fundamental principles of machine learning on Azure: It describes core machine learning concepts and Azure Machine Learning capabilities. Moreover, the topic also delves into identifying common machine-learning techniques.
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Microsoft Azure AI Fundamentals Sample Questions (Q89-Q94):

NEW QUESTION # 89

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
A webchat bot can interact with users visiting a website.	☐	☐
Automatically generating captions for pre-recorded videos is an example of conversational AI.	☐	☐
A smart device in the home that responds to questions such as "What will the weather be like today?" is an example of conversational AI.	☐	☐



Answer:

Explanation:

Statements	Yes	No
A webchat bot can interact with users visiting a website.	☒	☐
Automatically generating captions for pre-recorded videos is an example of conversational AI.	☒	☐
A smart device in the home that responds to questions such as "What will the weather be like today?" is an example of conversational AI.	☒	☐

Explanation

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

Statements	Yes	No
A webchat bot can interact with users visiting a website.	☒	☐
Automatically generating captions for pre-recorded videos is an example of conversational AI.	☒	☐
A smart device in the home that responds to questions such as "What will the weather be like today?" is an example of conversational AI.	☒	☐



NEW QUESTION # 90

Select the .

ANSWER AREA

You can use the Custom Vision service to train an object detection model by using your own images.

- Custom Vision
- Computer Vision
- Custom Vision
- Form Recognizer
- Azure Video Analyzer for Media



Answer:

Explanation:

ANSWER AREA

You can use the Custom Vision service to train an object detection model by using your own images.

- Custom Vision
- Computer Vision
- Custom Vision
- Form Recognizer
- Azure Video Analyzer for Media



Explanation:

Answer Area

You can use the Custom Vision service to train an object detection model by using your own images.



The correct completion of the sentence is:

"You can use the Custom Vision service to train an object detection model by using your own images." According to the Microsoft Azure AI Fundamentals (AI-900) official study guide and Microsoft Learn module "Identify features of computer vision workloads," the Azure Custom Vision service is a specialized component of Azure Cognitive Services for Vision that enables developers to train custom image classification or object detection models using their own labeled image datasets.

The Custom Vision service differs from the Computer Vision service in that it allows full customization - meaning you can upload your own images, tag them manually, and train the model to recognize objects specific to your use case (for example, detecting your company's products, tools, or vehicles). Once trained, the model can identify and localize these objects in new images by returning bounding boxes and confidence scores, which is precisely what defines an object detection workload.

Microsoft's AI-900 materials describe object detection as the process of identifying objects in an image and determining their position, typically represented by bounding boxes. Custom Vision supports two main project types:

* Image Classification: Determines what is present in the image (e.g., "dog," "cat," "car").

* Object Detection: Identifies what is present and where it is located in the image.

In contrast:

* Computer Vision provides prebuilt models for general image analysis but doesn't allow custom model training.

* Form Recognizer is used for extracting text and data from structured or semi-structured documents.

* Azure Video Analyzer for Media focuses on video content analysis, not custom object detection.

Therefore, based on the official Microsoft AI-900 study guide and Microsoft Learn content, the verified and correct answer is Custom Vision, as it specifically allows training of a custom object detection model using your own images.

NEW QUESTION # 91

You are building a tool that will process images from retail stores and identify the products of competitors.

The solution will use a custom model.

Which Azure Cognitive Services service should you use?

- A. Face

- B. Computer Vision
- C. Form Recognizer
- D. Custom Vision

Answer: D

Explanation:

to 300 words in Explanation:

The Custom Vision service under Azure Cognitive Services is specifically designed for image classification and object detection tasks that require a custom-trained model. According to the AI-900 official study materials, Custom Vision enables developers to "build, deploy, and improve image classifiers that recognize specific objects in images based on custom data." In this question, the goal is to build a system that processes images from retail stores and identifies products of competitors. Since these are unique products that may not be part of Microsoft's pre-trained models, a custom model must be created. The Custom Vision service allows you to upload your own labeled images (e.

g., product pictures), train a model to recognize those products, and then deploy it as an API for image recognition tasks.

Other options explained:

* B. Form Recognizer is used to extract text, key-value pairs, and tables from structured or semi-structured documents like invoices or receipts. It is not suitable for object identification.

* C. Face service detects and analyzes human faces, providing attributes like age, emotion, and facial landmarks, but cannot recognize general objects like products.

* D. Computer Vision is a general-purpose image analysis service used for tagging, OCR, and scene recognition, but it uses pre-trained models. It doesn't allow for custom product identification.

Thus, based on Microsoft's guidance, the best fit for recognizing competitor products from images using a custom-trained model is

A. Custom Vision.

NEW QUESTION # 92

You need to use Azure Machine Learning designer to build a model that will predict automobile prices.

Which type of modules should you use to complete the model? To answer, drag the appropriate modules to the correct locations. Each module 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.

Modules

Convert to CSV

K-Means Clustering

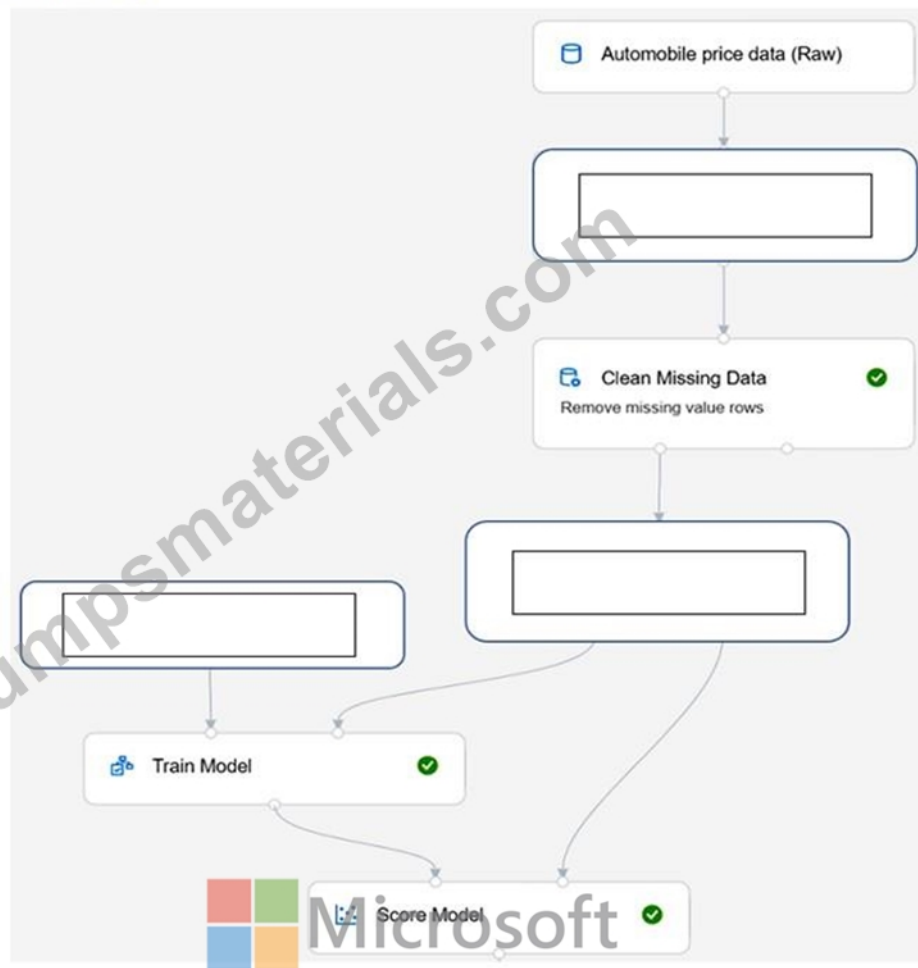
Linear Regression

Split Data

Select Columns in Dataset

Summarize Data

Answer Area

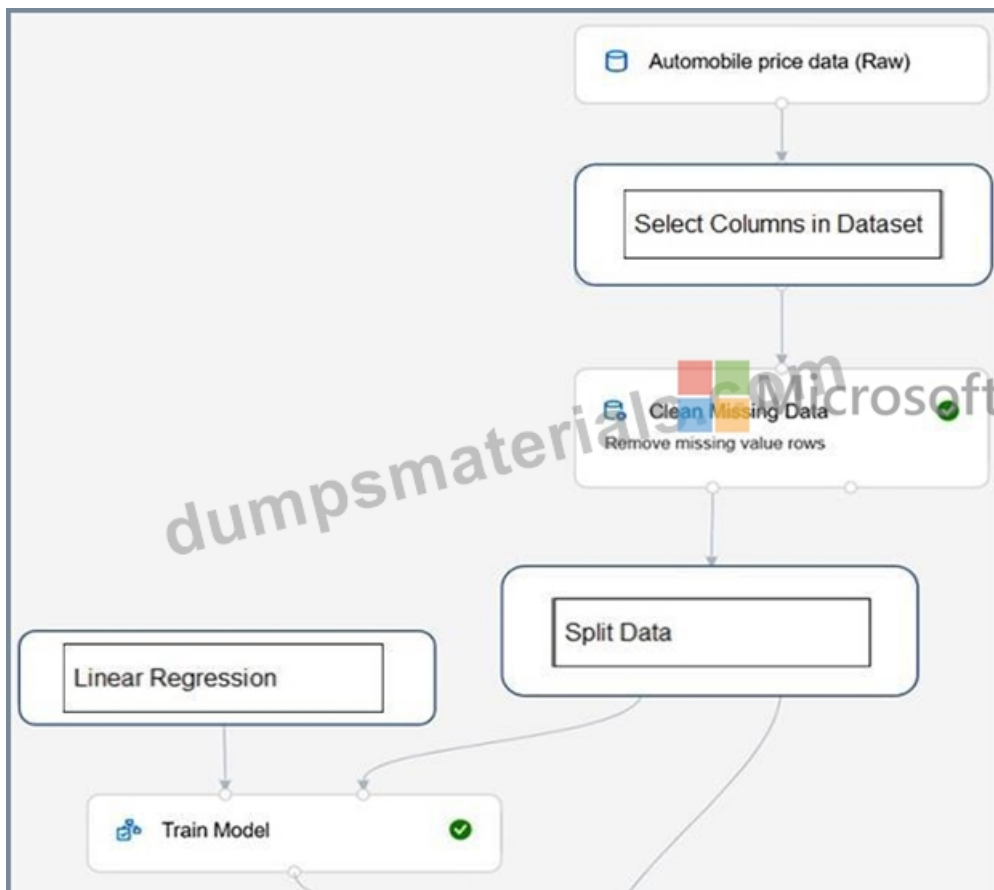


Answer:

Explanation:

Explanation

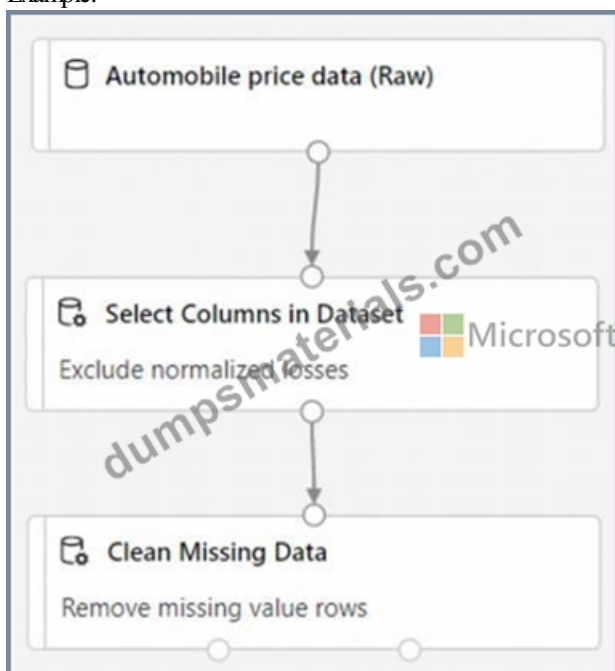
Diagram Description automatically generated



Box 1: Select Columns in Dataset

For Columns to be cleaned, choose the columns that contain the missing values you want to change. You can choose multiple columns, but you must use the same replacement method in all selected columns.

Example:



Box 2: Split data

Splitting data is a common task in machine learning. You will split your data into two separate datasets. One dataset will train the model and the other will test how well the model performed.

Box 3: Linear regression

Because you want to predict price, which is a number, you can use a regression algorithm. For this example, you use a linear regression model.

Reference:

<https://docs.microsoft.com/en-us/azure/machine-learning/tutorial-designer-automobile-price-train-score>

NEW QUESTION # 93

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	Answer Area
Entity recognition	API Feature Understand how upset a customer is based on the text contained in the support ticket.
Key phrase extraction	API Feature Summarize important information from the support ticket.
Language detection	API Feature Extract key dates from the support ticket.
Sentiment analysis	

Answer:

Explanation:

API Features	Answer Area
Entity recognition	Sentiment analysis Understand how upset a customer is based on the text contained in the support ticket.
Key phrase extraction	Key phrase extraction Summarize important information from the support ticket.
Language detection	Entity recognition Extract key dates from the support ticket.
Sentiment analysis	

Explanation

Answer Area
Sentiment analysis Understand how upset a customer is based on the text contained in the support ticket.
Key phrase extraction Summarize important information from the support ticket.
Entity recognition Extract key dates from the support ticket.

Box1: Sentiment analysis

Sentiment Analysis is the process of determining whether a piece of writing is positive, negative or neutral.

Box 2: Broad entity extraction

Broad entity extraction: Identify important concepts in text, including key phrases and named entities such as people, places, and organizations.

Box 3: Entity Recognition

Named Entity Recognition: Identify and categorize entities in your text as people, places, organizations, date/time, quantities, percentages, currencies, and more. Well-known entities are also recognized and linked to more information on the web.

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 # 94

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