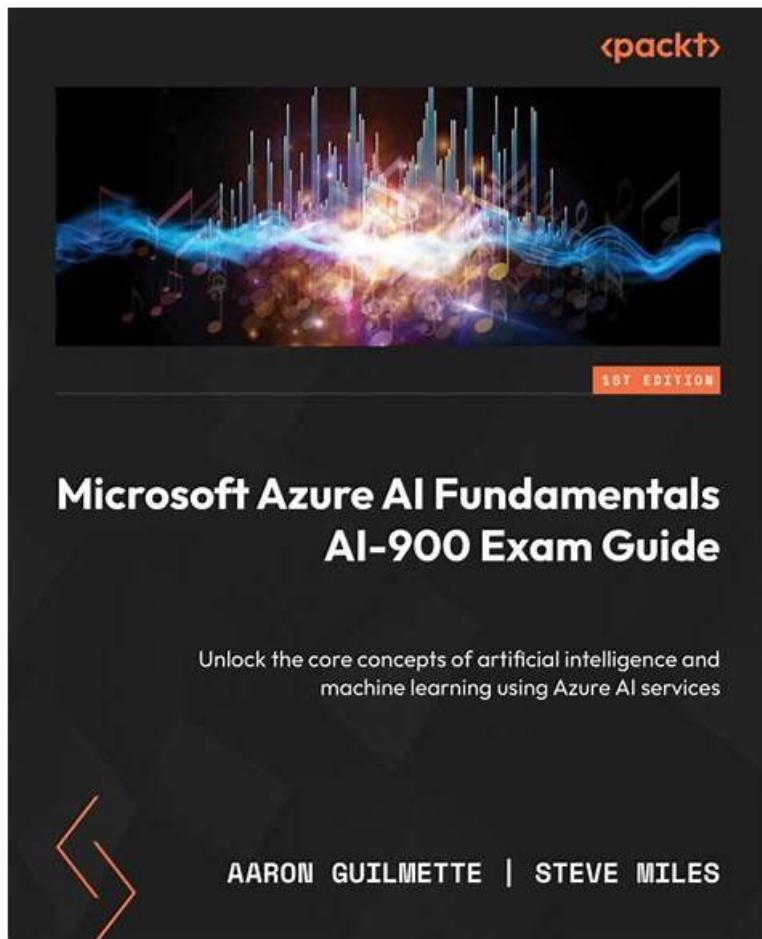


Microsoft AI-900 Questions: An Incredible Exam Preparation Way [2026]



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Microsoft AI-900 Exam Syllabus Topics:

Topic	Details
Describe Artificial Intelligence workloads and considerations (20-25%)	
Identify features of common AI workloads	<ul style="list-style-type: none">- identify features of anomaly detection workloads- identify computer vision workloads- identify natural language processing workloads- identify knowledge mining workloads

Identify guiding principles for responsible AI	<ul style="list-style-type: none"> - describe considerations for fairness in an AI solution - describe considerations for reliability and safety in an AI solution - describe considerations for privacy and security in an AI solution - describe considerations for inclusiveness in an AI solution - describe considerations for transparency in an AI solution - describe considerations for accountability in an AI solution
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Describe fundamental principles of machine learning on Azure (25-30%)

Identify common machine learning types	<ul style="list-style-type: none"> - identify regression machine learning scenarios - identify classification machine learning scenarios - identify clustering machine learning scenarios
Describe core machine learning concepts	<ul style="list-style-type: none"> - identify features and labels in a dataset for machine learning - describe how training and validation datasets are used in machine learning
Describe capabilities of visual tools in Azure Machine Learning studio	<ul style="list-style-type: none"> - automated machine learning - azure Machine Learning designer

Describe features of computer vision workloads on Azure (15-20%)

Identify common types of computer vision solution	<ul style="list-style-type: none"> - identify features of image classification solutions - identify features of object detection solutions - identify features of optical character recognition solutions - identify features of facial detection, facial recognition, and facial analysis solutions
Identify Azure tools and services for computer vision tasks	<ul style="list-style-type: none"> - identify capabilities of the Computer Vision service - identify capabilities of the Custom Vision service - identify capabilities of the Face service - identify capabilities of the Form Recognizer service

Describe features of Natural Language Processing (NLP) workloads on Azure (25-30%)

Identify features of common NLP Workload Scenarios	<ul style="list-style-type: none"> - identify features and uses for key phrase extraction - identify features and uses for entity recognition - identify features and uses for sentiment analysis - identify features and uses for language modeling - identify features and uses for speech recognition and synthesis - identify features and uses for translation
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Passing the AI-900 Certification Exam demonstrates that the candidate has a fundamental understanding of AI technologies and their applications in the Azure ecosystem. It is an excellent way to showcase your skills and knowledge to potential employers and clients. Microsoft Azure AI Fundamentals certification also provides a solid foundation for further Microsoft Azure certifications in AI and data science. Overall, the Microsoft AI-900 certification exam is an excellent way to kickstart your career in AI and demonstrate your proficiency in the field.

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certification also serves as a stepping stone to other more advanced Azure certifications, such as the Azure Data Scientist Associate and the Azure AI Engineer Associate certifications.

Microsoft Azure AI Fundamentals Sample Questions (Q21-Q26):

NEW QUESTION # 21

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

Predicting how many vehicles will travel across a bridge on a given day is an example of

- classification.
- clustering.
- regression.

Answer:

Explanation:

Predicting how many vehicles will travel across a bridge on a given day is an example of

- classification.
- clustering.
- regression.

Explanation:

Predicting how many **vehicles** will travel across a bridge on a given day is an example of

- classification.
- clustering.
- regression.

In the context of Microsoft Azure AI Fundamentals (AI-900) and general machine learning principles, regression refers to a type of supervised learning used to predict continuous numerical values based on historical data. The goal of regression is to model the relationship between input variables (features) and a continuous output variable (target).

In this scenario, the task is to predict how many vehicles will travel across a bridge on a given day. The number of vehicles is a numerical value that can vary continuously depending on factors such as time of day, weather, weekday/weekend, or traffic trends. Because the output is numeric and not categorical, this problem type clearly fits into regression analysis.

Microsoft's official learning content for AI-900, under "Identify features of regression and classification machine learning models," specifies that regression models are used to predict values such as sales forecasts, demand estimation, temperature prediction, or traffic volume-all of which share the same underlying objective: predicting a quantity.

To clarify other options:

* Classification is used when predicting categories or discrete classes, such as determining whether an email is spam or not spam, or if an image contains a cat or a dog.

* Clustering is an unsupervised learning technique used to group similar data points without predefined labels (for example, grouping customers by purchasing behavior).

Since predicting the number of vehicles results in a continuous numerical output, it aligns precisely with the regression workload type described in the Microsoft AI-900 study materials.

NEW QUESTION # 22

Your company is exploring the use of voice recognition technologies in its smart home devices. The company wants to identify any barriers that might unintentionally leave out specific user groups.

This is an example of which Microsoft guiding principle for responsible AI?

- A. inclusiveness
- B. privacy and security
- C. accountability
- D. fairness

Answer: A

Explanation:

According to the Microsoft Azure AI Fundamentals (AI-900) Official Study Guide and the Microsoft Responsible AI Framework, Inclusiveness is one of the six guiding principles for responsible AI. The principle of inclusiveness ensures that AI systems are designed to empower everyone and engage people of all abilities. Microsoft emphasizes that inclusive AI systems must be developed with awareness of potential barriers that could unintentionally exclude certain user groups. This directly aligns with the scenario described—where the company is examining voice recognition technologies in smart home devices to identify barriers that might leave out users, such as those with speech impairments, accents, or language differences.

The official Microsoft Learn module "Identify guiding principles for responsible AI" explains that inclusiveness focuses on creating systems that can understand and serve users with diverse needs. For example, voice recognition models should account for variations in dialect, tone, accent, and speech patterns to ensure equitable access for all. A lack of inclusiveness could cause bias or misrecognition for underrepresented groups, leading to unintentional exclusion.

Microsoft's guidance further stresses that designing for inclusiveness involves involving diverse users in the data collection and testing phases, conducting accessibility assessments, and continuously improving model performance across different demographic groups. In this way, inclusiveness promotes fairness, accessibility, and usability across cultural and physical differences.

In contrast:

- * A. Accountability is about ensuring humans are responsible for AI outcomes.
- * B. Fairness focuses on preventing bias and discrimination in data or algorithms.
- * C. Privacy and security ensure protection of personal data and secure handling of information.

Thus, evaluating potential barriers that could exclude specific user groups exemplifies Inclusiveness, as it demonstrates a proactive approach to making AI accessible and beneficial for all users.

NEW QUESTION # 23

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

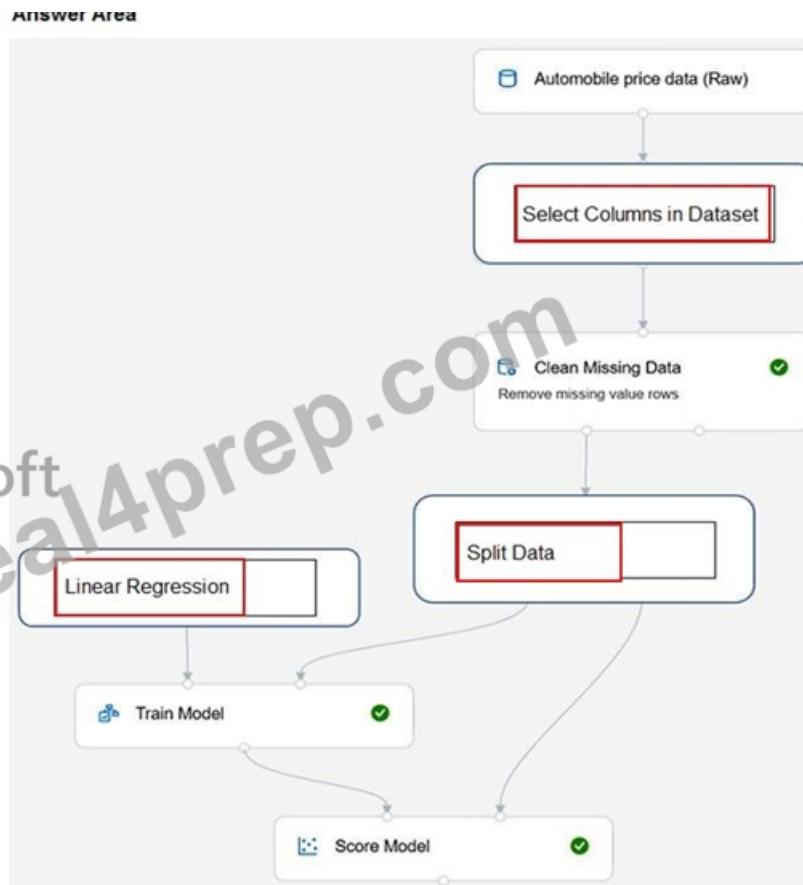
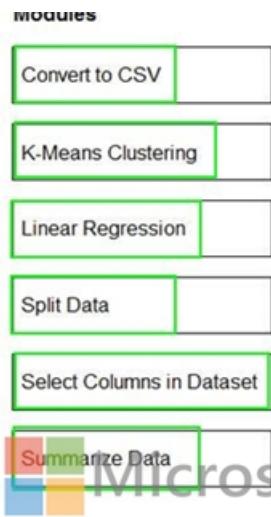
- Convert to CSV
- K-Means Clustering
- Linear Regression
- Split Data
- Select Columns in Dataset
- Summarize Data

Answer Area

```
graph TD; A[Automobile price data (Raw)] --> B[Clean Missing Data<br/>Remove missing value rows]; B --> C[Train Model]; C --> D[Score Model]; D --> E[Microsoft]
```

Answer:

Explanation:



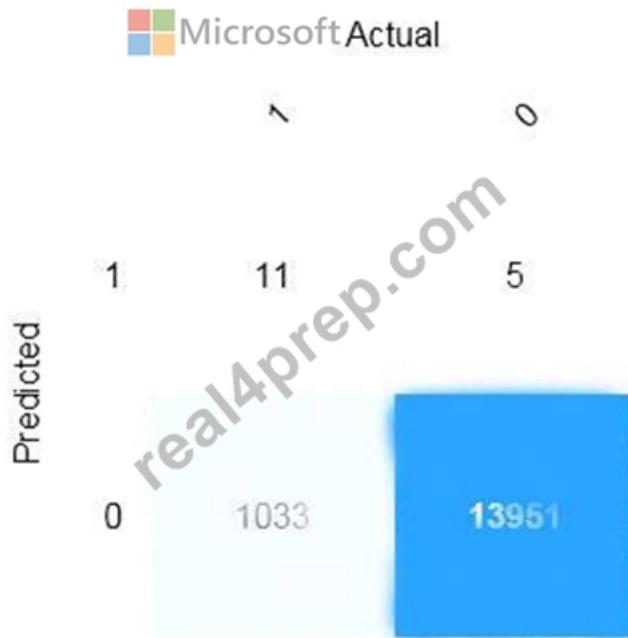
Reference:

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

NEW QUESTION # 24

You are developing a model to predict events by using classification.

You have a confusion matrix for the model scored on test data as shown in the following exhibit.



Use the drop-down menus to select the answer choice that completes each statement based on the information presented in the graphic.

NOTE: Each correct selection is worth one point.

Answer Area

There are [answer choice] correctly predicted positives.

5
11
1,033
13,951

There are [answer choice] false negatives.

5
11
1,033
13,951



Answer:

Explanation:

Answer Area

Statements

Yes

No

The Text Analytics service can identify in which language text is written.

The Text Analytics service can detect handwritten signatures in a document.

The Text Analytics service can identify companies and organizations mentioned in a document.



Explanation

Answer Area



There are [answer choice] correctly predicted positives.

5
11
1,033
13,951

There are [answer choice] false negatives.

5
11
1,033
13,951

Box 1: 11

		Predicted	
		Positive	Negative
Actual True	TP	FN	TN
	FP		

TP = True Positive.

The class labels in the training set can take on only two possible values, which we usually refer to as positive or negative. The positive and negative instances that a classifier predicts correctly are called true positives (TP) and true negatives (TN), respectively. Similarly, the incorrectly classified instances are called false positives (FP) and false negatives (FN).

Box 2: 1,033

FN = False Negative

Reference:

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

NEW QUESTION # 25

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

Answer Area



Retaining a bounding box that indicates the location of a vehicle in an image is an example of

image classification,
object detection,
optical character recognition (OCR),
facial detection.

Answer:

Explanation:

Explain Answer Area



Returning a bounding box that indicates the location of a vehicle in an image is an example of

image classification,
object detection,
optical character recognition (OCR),
facial detection.

Explanation

Answers Area



NEW QUESTION # 26

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