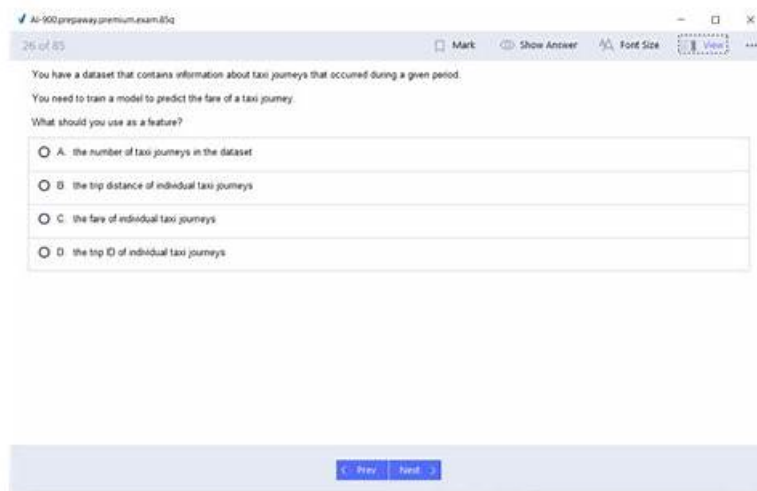


# New AI-900 Test Online - Dumps AI-900 Questions



The screenshot shows a web browser window with the address bar displaying 'Ai-900-prepway-premium-exam-85q'. The page content includes a progress indicator '26 of 85', a 'Mark' button, a 'Show Answer' button, and a 'Font Size' dropdown. The question text reads: 'You have a dataset that contains information about taxi journeys that occurred during a given period. You need to train a model to predict the fare of a taxi journey. What should you use as a feature?'. Below the text is a list of four radio button options: A. the number of taxi journeys in the dataset, B. the trip distance of individual taxi journeys, C. the fare of individual taxi journeys, and D. the trip ID of individual taxi journeys. At the bottom of the question area are 'Previous' and 'Next' navigation buttons.

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## Microsoft Azure AI Fundamentals Sample Questions (Q105-Q110):

### NEW QUESTION # 105

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:**

☐

### NEW QUESTION # 106

A company employs a team of customer service agents to provide telephone and email support to customers.

The company develops a webchat bot to provide automated answers to common customer queries.

Which business benefit should the company expect as a result of creating the webchat bot solution?

- A. improved product reliability
- B. a reduced workload for the customer service agents
- C. increased sales

**Answer: B**

Explanation:

Section: Describe Artificial Intelligence workloads and considerations

### NEW QUESTION # 107

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:**

Explanation:

Explanation:

Box 1: 11

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> Finding TP is easy. It basically means the value where Predicted and True value is 1 and that is 11 in this case.

False Negative means where true value was 1 but predicted value was 0 and that is 1033 in this case The confusion matrix shows cases where both the predicted and actual values were 1 (known as true positives) at the top left, and cases where both the predicted and the actual values were 0 (true negatives) at the bottom right. The other cells show cases where the predicted and actual values differ (false positives and false negatives).

<https://docs.microsoft.com/en-us/learn/modules/create-classification-model-azure-machine-learning-designer/eva>

### NEW QUESTION # 108

Select the answer that correctly completes the sentence.

**Answer:**

Explanation:

### NEW QUESTION # 109

Select the answer that correctly completes the sentence.

**Answer:**

Explanation:

Explanation:

When building a K-means clustering model, all features (variables) used in the model must be numeric in nature. According to the Microsoft Azure AI Fundamentals (AI-900) study materials and standard machine learning theory, K-means clustering is an unsupervised learning algorithm that groups data points into clusters based on their similarity - specifically by minimizing the Euclidean distance between data points and their assigned cluster centroids.

Because the K-means algorithm depends on distance calculations, it requires numeric data types. The Euclidean distance (or similar measures) can only be computed between numerical values. Therefore, all categorical or text data must first be converted into

numeric form through feature engineering techniques such as one-hot encoding, label encoding, or embedding vectors, depending on the nature of the data.

Here's how K-means works in summary:

- \* The algorithm initializes a predefined number of centroids (K).
- \* Each data point is assigned to the nearest centroid based on numeric distance.
- \* The centroids are recalculated as the mean of the points in each cluster.
- \* The process repeats until convergence.

If non-numeric data (e.g., text or Boolean) were provided, the model would not be able to calculate distances accurately, leading to computational errors.

Other options are incorrect:

- \* Boolean and integer types can represent numeric values but are considered special cases; the algorithm requires general numeric representation (e.g., continuous values).
- \* Text cannot be processed directly without conversion.

Thus, according to Azure Machine Learning and AI-900 official concepts, all features in a K-means clustering model must be numeric to ensure valid mathematical operations and clustering accuracy.

## NEW QUESTION # 110

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