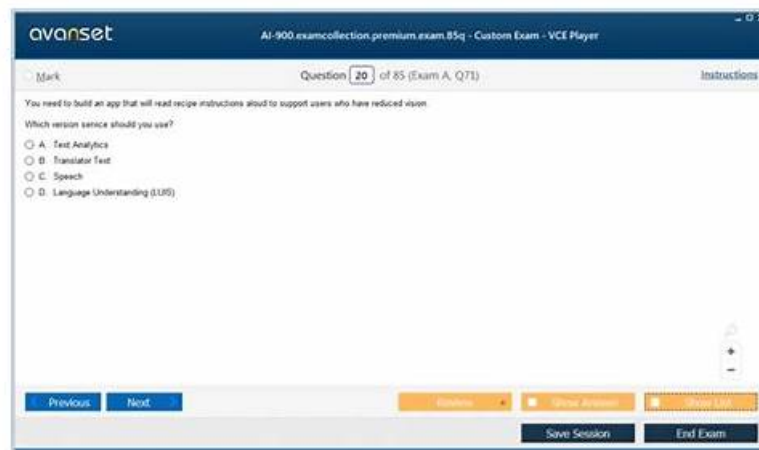


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Microsoft Azure AI Fundamentals Sample Questions (Q120-Q125):

NEW QUESTION # 120

Which metric can you use to evaluate a classification model?

- A. coefficient of determination (R2)
- B. true positive rate
- C. mean absolute error (MAE)
- D. root mean squared error (RMSE)

Answer: B

Explanation:

Section: Describe fundamental principles of machine learning on Azure

Explanation:

What does a good model look like?

An ROC curve that approaches the top left corner with 100% true positive rate and 0% false positive rate will be the best model. A random model would display as a flat line from the bottom left to the top right corner. Worse than random would dip below the y=x line.

Reference:

NEW QUESTION # 121

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

Answer Area

Data values that used to make a prediction are called

features.
dependant variables.
features.
identifiers.
labels.

Answer:

Explanation:

Answer Area

Data values that used to make a prediction are called



features.
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features.
identifiers.
labels.

Explanation:

Answer Area

Data values that used to make a prediction are called

features.
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labels.

According to the Microsoft Azure AI Fundamentals (AI-900) official study guide and Microsoft Learn module "Identify features of common machine learning types", the term features refers to the input variables or independent variables used by a machine learning model to make predictions. These are the measurable properties or attributes of the data that influence the output (target) value.

In a supervised learning process, data is typically divided into two parts:

- * Features # The input variables used by the model to learn patterns (e.g., customer age, income, credit score).
- * Label (Target) # The outcome or value the model is trying to predict (e.g., whether a loan will be approved or the amount of a house price).

During training, the model uses the features to understand how input data correlates with the target output.

Once trained, the model applies the same learned relationships to predict outcomes for new, unseen data using only the features.

For example:

- * In a regression model predicting house prices, features might include square footage, number of bedrooms, and location.
- * In a classification model predicting loan approval, features might include applicant income, credit score, and debt ratio.

To contrast with other options:

- * Dependent variables (or labels) are the outcomes the model predicts.
- * Identifiers (like customer IDs) are unique values that do not help the model learn relationships and are typically excluded from features.
- * Labels are the target outputs, not the inputs.

Therefore, in Azure Machine Learning and AI-900 terminology, data values used to make a prediction are called "features."

NEW QUESTION # 122

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
Forecasting housing prices based on historical data is an example of anomaly detection.	☐	☐
Identifying suspicious sign-ins by looking for deviations from usual patterns is an example of anomaly detection.	☐	☐
Predicting whether a patient will develop diabetes based on the patient's medical history is an example of anomaly detection.	☐	☐

Answer:

Explanation:

Explanation

Answer Area



**Microsoft
Statements**

Yes

No

Forecasting housing prices based on historical data is an example of anomaly detection.

☐☒

Identifying suspicious sign-ins by looking for deviations from usual patterns is an example of anomaly detection.

☒☐

Predicting whether a patient will develop diabetes based on the patient's medical history is an example of anomaly detection.

☒☐

Box 1: No

Box 2: Yes

Box 3: Yes

Anomaly detection encompasses many important tasks in machine learning:

Identifying transactions that are potentially fraudulent.

Learning patterns that indicate that a network intrusion has occurred.

Finding abnormal clusters of patients.

Checking values entered into a system.

Reference:

<https://docs.microsoft.com/en-us/azure/machine-learning/studio-module-reference/anomaly-detection>

NEW QUESTION # 123

An app that analyzes social media posts to identify their tone is an example of which type of natural language processing (NLP) workload?

- A. sentiment analysis
- B. entity recognition
- C. key phrase extraction
- D. speech recognition

Answer: A

NEW QUESTION # 124

You have a webchat bot that provides responses from a QnA Maker knowledge base.

You need to ensure that the bot uses user feedback to improve the relevance of the responses over time.

What should you use?

- A. business logic
- B. sentiment analysis
- C. key phrase extraction
- D. active learning

Answer: D

Explanation:

According to the Microsoft Azure AI Fundamentals (AI-900) study guide and the official Microsoft Learn module "Describe features of common AI workloads", QnA Maker (now part of Azure AI Language services) allows developers to build, train, and publish a knowledge base that provides natural-language answers to user queries. A key capability of this service is active learning, which enables the knowledge base to automatically suggest improvements by analyzing user feedback and usage patterns.

Active learning is an iterative process in which the service observes real user interactions and identifies ambiguous questions or pairs of similar questions that produce uncertain or multiple answers. The system then recommends updates or refinements to the knowledge base to improve the accuracy and relevance of responses. This feedback loop helps ensure that over time, the chatbot's

responses align more closely with actual user expectations and language variations.

In contrast:

- * A. Key phrase extraction identifies main ideas in text and is used in content summarization, not in response optimization.
- * B. Sentiment analysis detects emotional tone (positive, negative, neutral), but it doesn't refine QnA responses.
- * C. Business logic defines operational rules in an application, not machine learning-driven feedback.

The AI-900 guide specifically emphasizes that QnA Maker supports active learning to improve the quality of answers based on end-user feedback, making this the verified and official Microsoft answer.

Reference (from Microsoft Learn AI-900 content):

"Active learning uses feedback from end users to automatically suggest improvements to a knowledge base, helping improve the accuracy of answers over time."

NEW QUESTION # 125

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