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Microsoft AI-900 (Microsoft Azure AI Fundamentals) Certification Exam is a foundational level exam that is designed to test candidates' knowledge and understanding of the key concepts of AI and how it can be applied using Microsoft Azure. Microsoft Azure AI Fundamentals certification is suitable for individuals with a technical or non-technical background who are interested in learning about AI and its practical applications in the industry. AI-900 exam covers a range of topics such as fundamental concepts of AI, machine learning, cognitive services, and natural language processing.

Microsoft AI-900 Exam Syllabus Topics:

Topic	Details
Describe Artificial Intelligence workloads and considerations (20-25%)	
Identify features of common AI workloads	- 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	- 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
Describe fundamental principles of machine learning on Azure (25-30%)	
Identify common machine learning types	- identify regression machine learning scenarios - identify classification machine learning scenarios - identify clustering machine learning scenarios
Describe core machine learning concepts	- 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	- automated machine learning - azure Machine Learning designer

Describe features of computer vision workloads on Azure (15-20%)	
Identify common types of computer vision solution	- 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

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Competitors Review of AI-900: Microsoft Azure AI Fundamentals Exam

While the certification of the AI-900 Microsoft Azure AI Fundamentals Exam, many people have had success with it. Users of the AExamCertify website have passed the certification. Discussed problems while preparing the Microsoft AI-900 exam are solved by using the AExamCertify website. Speech recognition is used for this purpose. Recognition of the voice is important for this purpose. Integration of the Microsoft AI-900 exam is easy with the Google assistant. Modeling is used to do the speech recognition. Actual test of the Microsoft AI-900 exam users of the AExamCertify website have passed. Functional design is used for this purpose. Aspects are the part of the speech recognition. Needs to be done by using the Microsoft AI-900 exam. Aspects are the part of the speech recognition. **Microsoft AI-900 Exam Dumps** are used for this purpose. Maker is available for this purpose. Hard is the process of creating the notebook. Learning with the Microsoft AI-900 exam is easy with this website.

Recognizer is used for the voice recognition. Love is the application of the Microsoft AI-900 exam. Is emphasized by using the Microsoft AI-900 exam. Harder to do the task with this website. Worth the search of the Microsoft AI-900 exam is done. Just for the Microsoft AI-900 exam can help to pass it easily. Perfect integration is done by using the Microsoft AI-900 exam. Scientist is used for this purpose. Technical questions are required for this purpose. The best solution for AI-900 Microsoft Azure AI Fundamentals Exam is necessary. See some attempts to pass the Microsoft AI-900 exam. Guide is useful for this purpose.

Microsoft Azure AI Fundamentals Sample Questions (Q145-Q150):

NEW QUESTION # 145
Which type of machine learning should you use to predict the number of gift cards that will be sold next month?

- A. classification
- B. regression
- C. clustering

Answer: C

Explanation:
Clustering, in machine learning, is a method of grouping data points into similar clusters. It is also called segmentation.
Over the years, many clustering algorithms have been developed. Almost all clustering algorithms use the features of individual items to find similar items. For example, you might apply clustering to find similar people by demographics. You might use clustering with text analysis to group sentences with similar topics or sentiment.
Reference:
https://docs.microsoft.com/en-us/azure/machine-learning/studio-module-reference/machine-learning-initialize- model-clustering

NEW QUESTION # 146
You have the Predicted vs. True chart shown in the following exhibit.
Which type of model is the chart used to evaluate?

- A. classification
- B. regression
- C. clustering

Answer: B

Explanation:
Explanation
What is a Predicted vs. True chart?
Predicted vs. True shows the relationship between a predicted value and its correlating true value for a regression problem. This graph can be used to measure performance of a model as the closer to the y=x line the predicted values are, the better the accuracy of a predictive model.
Reference:
https://docs.microsoft.com/en-us/azure/machine-learning/how-to-understand-automated-m

NEW QUESTION # 147

Match the machine learning tasks to the appropriate scenarios.
To answer, drag the appropriate task from the column on the left to its scenario on the right. Each task may be used once, more than once, or not at all.
NOTE: Each correct selection is worth one point.

Answer:

Explanation:
Explanation
Box 1: Model evaluation
The Model evaluation module outputs a confusion matrix showing the number of true positives, false negatives, false positives, and true negatives, as well as ROC, Precision/Recall, and Lift curves.
Box 2: Feature engineering
Feature engineering is the process of using domain knowledge of the data to create features that help ML algorithms learn better. In Azure Machine Learning, scaling and normalization techniques are applied to facilitate feature engineering. Collectively, these techniques and feature engineering are referred to as featurization.
Note: Often, features are created from raw data through a process of feature engineering. For example, a time stamp in itself might not be useful for modeling until the information is transformed into units of days, months, or categories that are relevant to the problem, such as holiday versus working day.
Box 3: Feature selection
In machine learning and statistics, feature selection is the process of selecting a subset of relevant, useful features to use in building an analytical model. Feature selection helps narrow the field of data to the most valuable inputs. Narrowing the field of data helps reduce noise and improve training performance.
Reference:
https://docs.microsoft.com/en-us/azure/machine-learning/studio/evaluate-model-performance
https://docs.microsoft.com/en-us/azure/machine-learning/concept-automated-ml

NEW QUESTION # 148

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

Answer:

Explanation:
Reference:
https://docs.microsoft.com/en-us/azure/machine-learning/concept-designer#deploy

NEW QUESTION # 149

What is a use case for classification?

- A. predicting how many minutes it will take someone to run a race based on past race times

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

Answer: B

Explanation:
According to the Microsoft Azure AI Fundamentals (AI-900) official study guide and Microsoft Learn module "Identify features of classification machine learning", classification is a type of supervised machine learning used when the goal is to predict a categorical outcome. That means the output variable represents discrete labels such as Yes/No, True/False, or Category A/B/C.
In this example, the model is predicting whether a person uses a bicycle (Yes or No) - a binary categorical outcome. The input (distance from home to work) is numeric, but the prediction is a class or category, which makes it a classification problem.
To compare:
* A and D (predicting how many cups of coffee or race minutes) involve numeric predictions, which are regression tasks.
* B (grouping images by similar colors) involves clustering, an unsupervised learning method used to find natural groupings in data.
Thus, the use case that fits classification is predicting whether someone uses a bicycle, since the answer is categorical.
Reference:Microsoft Learn - Identify the types of machine learning models: Classification, Regression, and Clustering (AI-900 Learning Path)

NEW QUESTION # 150

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