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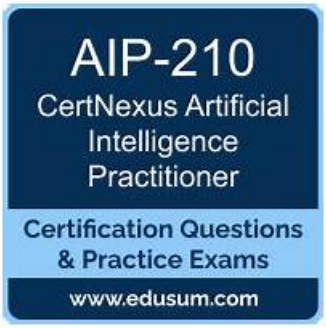

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CertNexus Certified Artificial Intelligence Practitioner (CAIP) Sample Questions (Q57-Q62):

NEW QUESTION # 57
Workflow design patterns for the machine learning pipelines:

- A. Seek to simplify the management of machine learning features.
- B. Separate inputs from features.

- C. Represent a pipeline with directed acyclic graph (DAG).
- D. Aim to explain how the machine learning model works.

Answer: C

Explanation:
Explanation
Workflow design patterns for machine learning pipelines are common solutions to recurring problems in building and managing machine learning workflows. One of these patterns is to represent a pipeline with a directed acyclic graph (DAG), which is a graph that consists of nodes and edges, where each node represents a step or task in the pipeline, and each edge represents a dependency or order between the tasks. A DAG has no cycles, meaning there is no way to start at one node and return to it by following the edges. A DAG can help visualize and organize the pipeline, as well as facilitate parallel execution, fault tolerance, and reproducibility.

NEW QUESTION # 58
In a self-driving car company, ML engineers want to develop a model for dynamic pathing. Which of following approaches would be optimal for this task?

- A. Dijkstra Algorithm
- B. Supervised Learning.
- C. Unsupervised Learning
- D. Reinforcement learning

Answer: D

Explanation:
Explanation
Reinforcement learning is a type of machine learning that involves learning from trial and error based on rewards and penalties. Reinforcement learning can be used to develop models for dynamic pathing, which is the problem of finding an optimal path from one point to another in an uncertain and changing environment.
Reinforcement learning can enable the model to adapt to new situations and learn from its own actions and feedback. For example, a self-driving car company can use reinforcement learning to train its model to navigate complex traffic scenarios and avoid collisions .

NEW QUESTION # 59
Which of the following statements are true regarding highly interpretable models? (Select two.)

- A. They are usually referred to as "black box" models.
- B. They are usually easier to explain to business stakeholders.
- C. They usually compromise on model accuracy for the sake of interpretability.
- D. They are usually very good at solving non-linear problems.
- E. They are usually binary classifiers.

Answer: B,C

Explanation:
Explanation
Highly interpretable models are models that can provide clear and intuitive explanations for their predictions, such as decision trees, linear regression, or logistic regression. Some of the statements that are true regarding highly interpretable models are:
They are usually easier to explain to business stakeholders: Highly interpretable models can help communicate the logic and reasoning behind their predictions, which can increase trust and confidence among business stakeholders. For example, a decision tree can show how each feature contributes to a decision outcome, or a linear regression can show how each coefficient affects the dependent variable.
They usually compromise on model accuracy for the sake of interpretability: Highly interpretable models may not be able to capture complex or non-linear patterns in the data, which can reduce their accuracy and generalization. For example, a decision tree may overfit or underfit the data if it is too deep or too shallow, or a linear regression may not be able to model curved relationships between variables.

NEW QUESTION # 60
Normalization is the transformation of features:

- A. So that they are on a similar scale.
- B. Into the normal distribution.
- C. To different scales from each other.
- D. By subtracting from the mean and dividing by the standard deviation.

Answer: A

Explanation:
Normalization is the transformation of features so that they are on a similar scale, usually between 0 and 1 or -1 and 1. This can help reduce the influence of outliers and improve the performance of some machine learning algorithms that are sensitive to the scale of the features, such as gradient descent, k-means, or k- nearest neighbors. References: [Feature scaling - Wikipedia], [Normalization vs Standardization - Quantitative analysis]

NEW QUESTION # 61
Which of the following equations best represent an LI norm?

- A. |x|