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CertNexus AIP-210 Exam Syllabus Topics:

Topic	Details
Topic 1	<ul style="list-style-type: none">• Train, validate, and test data subsets• Training and Tuning ML Systems and Models
Topic 2	<ul style="list-style-type: none">• Understanding the Artificial Intelligence Problem• Analyze the use cases of ML algorithms to rank them by their success probability
Topic 3	<ul style="list-style-type: none">• Recognize relative impact of data quality and size to algorithms• Engineering Features for Machine Learning
Topic 4	<ul style="list-style-type: none">• Design machine and deep learning models• Explain data collection• transformation process in ML workflow

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CertNexus Certified Artificial Intelligence Practitioner (CAIP) Sample Questions (Q77-Q82):

NEW QUESTION # 77

Which two encodes can be used to transform categories data into numerical features? (Select two.)

- A. One-Hot Encoder
- B. Median Encoder
- C. Log Encoder
- D. Mean Encoder
- E. Count Encoder

Answer: A,D

Explanation:

Explanation

Encoding is a technique that transforms categorical data into numerical features that can be used by machine learning models.

Categorical data are data that have a finite number of possible values or categories, such as gender, color, or country. Encoding can help convert categorical data into a format that is suitable and understandable for machine learning models. Some of the encoding methods that can be used to transform categorical data into numerical features are:

Mean Encoder: Mean encoder is a method that replaces each category with the mean value of the target variable for that category.

Mean encoder can capture the relationship between the category and the target variable, but it may cause overfitting or multicollinearity problems.

One-Hot Encoder: One-hot encoder is a method that creates a binary vector for each category, where only one element has a value of 1 (the hot bit) and the rest have a value of 0. One-hot encoder can create distinct and orthogonal vectors for each category, but it may increase the dimensionality and sparsity of the data.

NEW QUESTION # 78

Below are three tables: Employees, Departments, and Directors.

Employee_Table

ID	Firstname	Lastname	Age	Salary	Dept
1256	Jake	Burton	33	\$ 68,230	IT
3489	Zoe	Clark	22	\$ 65,000	IT
4577	Ciara	Ortiz	47	\$ 75,625	Analyst
8900	Josh	Green	28	\$ 43,670	HR

Department_Table

ID	Name	Director ID
1	Accountants	4566
2	HR	1230
3	Analyst	9077
4	IT	1346
5	Legal	2088

Director_Table

ID

Firstname

Lastname

Age

Salary

DeptJD

4566

Joey

Morin

62

\$ 122,000

1

1230

Sam

Clarck

43

\$ 95,670

2

9077

Lola

Russell

54

\$ 165,700

3

1346

Lily

Cotton

46

\$ 156,000

4

2088

Beckett

Good

52

\$ 165,000

5

Which SQL query provides the Directors' Firstname, Lastname, the name of their departments, and the average employee's salary?

- A. SELECT m.Firstname, m.Lastname, d.Name, AVG(e.Salary) as Dept_avg_Salary FROM Employee_Table as e LEFT JOIN Department_Table as d on e.Dept = d.Name LEFT JOIN Directorjable as m on d.ID = m.DeptJD GROUP BY

m.Firstname, m.Lastname, d.Name

- B. SELECT m.Firstname, m.Lastname, d.Name, AVG(e.Salary) as Dept_avg_SalaryFROM Employee_Table as eRIGHT JOIN Department_Table as d on e.Dept = d.NameINNER JOIN Directorjable as m on d.ID = m.DeptJDGROUP BY e.Salary
- C. SELECT m.Firstname, m.Lastname, d.Name, AVG(e.Salary) as Dept_avg_SalaryFROM Employee_Table as eRIGHT JOIN Department_Table as d on e.Dept = d.NameINNER JOIN Directorjable as m on d.ID = m.DeptJDGROUP BY m.Firstname, m.Lastname, d.Name
- D. SELECT m.Firstname, m.Lastname, d.Name, AVG(e.Salary) as Dept_avg_SalaryFROM Employee_Table as eRIGHT JOIN Departmentjable as d on e.Dept = d.NameINNER JOIN Directorjable as m on d.ID = m.DeptJDGROUP BY d.Name

Answer: C

Explanation:

This SQL query provides the Directors' Firstname, Lastname, the name of their departments, and the average employee's salary by joining the three tables using the appropriate join types and conditions. The RIGHT JOIN between Employee_Table and Department_Table ensures that all departments are included in the result, even if they have no employees. The INNER JOIN between Department_Table and Directorjable ensures that only departments with directors are included in the result. The GROUP BY clause groups the result by the directors' names and departments' names, and calculates the average salary for each group using the AVG function. References: SQL Joins - W3Schools, SQL GROUP BY Statement - W3Schools

NEW QUESTION # 79

A product manager is designing an Artificial Intelligence (AI) solution and wants to do so responsibly, evaluating both positive and negative outcomes.

The team creates a shared taxonomy of potential negative impacts and conducts an assessment along vectors such as severity, impact, frequency, and likelihood.

Which modeling technique does this team use?

- A. Process
- B. Business
- C. Threat
- D. Harms

Answer: D

Explanation:

Harms modeling is a technique that helps product managers design AI solutions responsibly by evaluating both positive and negative outcomes. Harms modeling involves creating a shared taxonomy of potential negative impacts and conducting an assessment along vectors such as severity, impact, frequency, and likelihood. Harms modeling can help identify and mitigate any risks or harms that may arise from using AI solutions. References: [Harms Modeling for Responsible AI | by Google Developers | Google Developers], [Harms Modeling for Responsible AI - YouTube]

NEW QUESTION # 80

In general, models that perform their tasks:

- A. Less accurately are less robust against adversarial attacks.
- B. More accurately are less robust against adversarial attacks.
- C. More accurately are neither more nor less robust against adversarial attacks.
- D. Less accurately are neither more nor less robust against adversarial attacks.

Answer: B

Explanation:

Adversarial attacks are malicious attempts to fool or manipulate machine learning models by adding small perturbations to the input data that are imperceptible to humans but can cause significant changes in the model output. In general, models that perform their tasks more accurately are less robust against adversarial attacks, because they tend to have higher confidence in their predictions and are more sensitive to small changes in the input data. References: [Adversarial machine learning - Wikipedia], [Why Are Machine Learning Models Susceptible to Adversarial Attacks? | by Anirudh Jain | Towards Data Science]

NEW QUESTION # 81

Why do data skews happen in the ML pipeline?

- A. There Is a mismatch between live input data and offline data.
- B. There is a mismatch between live output data and offline data.
- C. There is insufficient training data for evaluation.
- D. Test and evaluation data are designed incorrectly.

Answer: A

Explanation:

Data skews happen in the ML pipeline when the distribution or characteristics of the live input data differ from those of the offline data used for training and testing the model. This can lead to a degradation of the model performance and accuracy, as the model is not able to generalize well to new data. Data skews can be caused by various factors, such as changes in user behavior, data collection methods, data quality issues, or external events. References: What is training-serving skew in Machine Learning?, Data preprocessing for ML: options and recommendations

NEW QUESTION # 82

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