5.00 (100 %)
25.02
secs
) March 2025, 5:54 PM
) March 2025, 5:42 PM

Select the FALSE statements w.r.t Feature Crossing:

- 1. It is the process of creating new features by combining or crossing existing features.
- 2. It is limited to numerical features, and has no use when applied to categorical features.
- 3. As the number of crossed features increases, it becomes easier to interpret the individual impact of each feature on the model's output.
- 4. Domain knowledge and experimentation are valuable in identifying meaningful feature interactions.
- Only 2
- Both 2 and 3

 ✓
- Both 3 and 4
- Both 2 and 4

Your answer is correct.

Feature Crossing is the process of creating new features by combining or crossing existing features. It is not limited to numerical features, and can also be applied to categorical features.

As the number of crossed features increases, it becomes challenging to interpret the individual impact of each feature on the model's output.

Domain knowledge and experimentation are valuable in identifying meaningful feature interactions.

The correct answer is:

Both 2 and 3

Question 2

Correct

Mark 1.00 out of 1.00

Match the following techniques, used for encoding categorical features, with their descriptions:

Technique	Description
a. Ordinal Encoding	i. Assigns a unique numerical label to each category
b. Binary Encoding	ii. Creates n-1 features for n categories
c. Label Encoding	iii. Represents each category as a binary code
d. One-Hot Encoding	iv. Assigns numerical values to categories based on their rank

a-	П	Π.	. b-	II.	c-i.	d	-11

a-iv, b-iii, c-i, d-ii

✓

a-i, b-iii, c-iv, d-ii

a-i, b-ii, c-iii, d-iv

Your answer is correct.

- One-Hot Encoding: Creates separate binary columns for each category. If there are n categories, it typically creates n-1 features to avoid multicollinearity in machine learning models. Each row has a 1 in the column corresponding to its category and 0 elsewhere.
- Label Encoding: Assigns a unique numerical label to each category. This method is useful for ordinal data but can introduce unintended relationships in nominal data.
- Ordinal Encoding: Assigns numerical values to categories based on their rank or order, making it suitable for ordinal data where the sequence matters.
- Binary Encoding: Converts each category into binary representation, reducing dimensionality compared to one-hot encoding while still preserving categorical information

The correct answer is:

a-iv, b-iii, c-i, d-ii

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Question	
	.00 out of 1.00
Why	might continuous positional embeddings be preferred over discrete positional embeddings?
	They explicitly learn positional relationships during training
	They increase the number of parameters, improving model accuracy
	They provide a fixed, smooth representation that generalizes well across different sequence lengths \checkmark
	They require a unique embedding for each position, making them more precise
You	r answer is correct.
	tinuous positional embeddings use mathematical functions like sine and cosine to create smooth, continuous representations. They do change during training, and their fixed nature makes them more memory-efficient and generalizable across different sequence lengths
	correct answer is: y provide a fixed, smooth representation that generalizes well across different sequence lengths
Questio Correct	
Mark 1	.00 out of 1.00
Your The True	
Questi	
Correct	
Mark 1.	.00 out of 1.00
Non	n-neural network algorithms tend to be more explainable than deep learning models
	True ✓
	False
You	r answer is correct.
The True	correct answer is: