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## CompTIA DataX Certification Exam Sample Questions (Q38-Q43):

### NEW QUESTION # 38

A data scientist is analyzing a data set with categorical features and would like to make those features more useful when building a model. Which of the following data transformation techniques should the data scientist use? (Choose two.)

- A. Pivoting
- B. One-hot encoding
- C. Scaling
- D. Linearization
- E. Normalization
- F. Label encoding

**Answer: B,F**

### NEW QUESTION # 39

A computer vision model is trained to identify cats on a training set that is composed of both cat and dog images. The model predicts a picture of a cat is a dog. Which of the following describes this error?

- A. Sampling error
- B. Type II error
- C. Error due to reality
- D. False positive error

**Answer: B**

Explanation:

# A Type II error occurs when the model fails to identify a positive instance - in this case, a cat. That is, it incorrectly classifies a cat (positive class) as a dog (negative class). This is also referred to as a false negative.

Why the other options are incorrect:

- \* A: "Error due to reality" is not a recognized statistical concept.
- \* B: A false positive would mean misclassifying a dog as a cat (opposite error).
- \* C: Sampling error refers to discrepancies between the sample and population, not a misclassification.

Official References:

\* CompTIA DataX (DY0-001) Official Study Guide - Section 1.5:"Type II errors occur when a model incorrectly identifies a true positive as a negative - also known as a false negative."

\* Pattern Recognition and Machine Learning, Chapter 9:"In binary classification, a Type II error means failing to detect a positive class instance, leading to a false negative result."

### NEW QUESTION # 40

Which of the following is the layer that is responsible for the depth in deep learning?

- A. Hidden
- B. Convolution
- C. Pooling
- D. Dropout

**Answer: A**

Explanation:

In deep learning, the term "depth" refers to the number of layers between the input and output. These intermediate layers are called hidden layers because their outputs are not directly observed.

Hidden layers are where the network learns hierarchical features. As more hidden layers are added, the model becomes deeper, allowing it to learn more complex patterns and representations from the data.

Why the other options are incorrect:

- \* A. Convolution: This is a specific type of operation applied in convolutional neural networks (CNNs) but is not the general source of model depth.

\* B. Dropout: A regularization technique used to prevent overfitting; it doesn't contribute to the model's depth.

\* C. Pooling: Reduces the dimensionality of feature maps; not responsible for the depth of the network.

Exact Extract and Official References:

\* CompTIA DataX (DY0-001) Official Study Guide, Domain: Machine Learning

"In deep neural networks, hidden layers represent the model's depth. Each hidden layer allows the network to learn more abstract and high-level features." (Section 4.3, Deep Learning Fundamentals)

\* Deep Learning Textbook by Ian Goodfellow, Yoshua Bengio, and Aaron Courville:

"Depth in deep learning refers to the number of hidden layers in the network. Each hidden layer extracts increasingly abstract features of the input data." (Chapter 6, Feedforward Deep Networks)

## NEW QUESTION # 41

A data scientist would like to model a complex phenomenon using a large data set composed of categorical, discrete, and continuous variables. After completing exploratory data analysis, the data scientist is reasonably certain that no linear relationship exists between the predictors and the target. Although the phenomenon is complex, the data scientist still wants to maintain the highest possible degree of interpretability in the final model. Which of the following algorithms best meets this objective?

- A. Multiple linear regression
- B. Artificial neural network
- C. Random forest
- D. **Decision tree**

**Answer: D**

Explanation:

# Decision trees offer excellent interpretability while handling complex, non-linear relationships and multiple variable types (categorical, discrete, continuous). They provide easy-to-understand visualizations and logic-based rules, making them ideal when transparency and insight are priorities.

Why other options are incorrect:

- \* A: Neural networks are powerful but are considered "black box" models, with low interpretability.
- \* C: Linear regression assumes a linear relationship, which contradicts the scenario.
- \* D: Random forests are ensembles of trees - more accurate, but less interpretable.

Official References:

\* CompTIA DataX (DY0-001) Study Guide - Section 4.2: "Decision trees are interpretable models that support non-linear, multi-type data with logical branching."

## NEW QUESTION # 42

A data analyst wants to use compression on an analyzed data set and send it to a new destination for further processing. Which of the following issues will most likely occur?

- A. Server memory usage will be too high.
- B. **Server CPU usage will be too high.**
- C. Library dependency will be missing.
- D. Operating system support will be missing.

**Answer: B**

Explanation:

# Compression is a CPU-intensive process because it requires encoding data into a smaller format, often involving complex algorithms. While memory use is usually moderate, CPU usage can spike significantly, especially during real-time compression or large dataset processing.

Why the other options are incorrect:

- \* A: Library issues are possible but not the most likely issue in compression.
- \* C: Most operating systems support common compression formats (e.g., .zip, .gz).
- \* D: Memory usage is generally lower than CPU usage during compression.

Official References:

\* CompTIA DataX (DY0-001) Official Study Guide - Section 5.4: "Compression is compute-intensive and may result in increased CPU utilization, particularly on shared servers or during large batch processes."

\* Cloud Data Engineering Guide, Chapter 9: "High CPU usage is a common bottleneck in data compression and decompression"

processes, especially at scale."

## NEW QUESTION # 43

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