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Section	Weight	Objectives
Mathematics and Statistics	17%	- Linear algebra fundamentals - Probability theory and distributions - Bayesian reasoning and modeling - Calculus and optimization concepts - Statistical inference and hypothesis testing
Machine Learning	24%	- Deep learning fundamentals - Supervised, unsupervised, and reinforcement learning - Hyperparameter tuning and optimization - Ethics and bias in machine learning - Algorithm selection and implementation

Operations and Processes	22%	- Version control and reproducibility - Model deployment and monitoring - Data governance and quality management - Security and compliance in data operations - Data pipeline design and maintenance - Anomaly detection and signal processing - Computer Vision
Specialized Applications of Data Science	13%	- Industry-specific analytics use cases - Natural Language Processing (NLP) - Time-series analysis
Modeling, Analysis, and Outcomes	24%	- Data preparation and exploratory data analysis - Model selection and evaluation metrics - Predictive and prescriptive analytics - Feature engineering and selection - Result interpretation and business communication

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CompTIA DataAI Certification Exam Sample Questions (Q34-Q39):

NEW QUESTION # 34

A data scientist is attempting to identify sentences that are conceptually similar to each other within a set of text files. Which of the following is the best way to prepare the data set to accomplish this task after data ingestion?

- A. Sampling
- B. Embeddings
- C. One-hot encoding
- D. Extrapolation

Answer: B

Explanation:

Generating embeddings transforms each sentence into a dense numerical vector in a semantic space, where conceptually similar sentences lie close together, enabling straightforward similarity calculations (e.g., cosine similarity) to group or identify related sentences.

NEW QUESTION # 35

A data scientist has built a model that provides the likelihood of an error occurring in a factory. The historical accuracy of the model is 90%. At a specific factory, the model is reporting a likelihood score of 0.90. Which of the following explains a confidence score of 0.90?

- A. Running this model for all known factory issues, it is expected the model will identify 90 out of 100 known factory issues.
- B. Running this model on 100 samples of factories, a certain model performance is expected for 90 out of the 100 samples.
- C. Running this model 100 times within a factory it is expected the model will predict error 90 out of 100 times the model is ran.
- D. Running this model 100 times on a factory, it is expected the model will predict 90 out of 100 factory errors.

Answer: C

Explanation:

A likelihood score of 0.90 indicates the model's confidence that an error will occur in this particular instance. Interpreted probabilistically, it means that if this scenario happened 100 times, the model would expect an error in 90 of those cases.

Why the other options are incorrect:

- * A: Confuses confidence with recall or precision.
- * B: Refers to model sampling performance, not instance-level prediction.
- * C: Implies a prediction of actual factory errors - not the model's forecast probability.

Official References:

* CompTIA DataX (DY0-001) Study Guide - Section 3.2: "A confidence score in a classification model indicates the model's belief in the outcome of a specific prediction."

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NEW QUESTION # 36

An analyst is examining data from an array of temperature sensors and sees that one sensor consistently returns values that are much higher than the values from the other sensors. Which of the following terms best describes this type of error?

- A. Idiosyncratic
- B. Synthetic
- C. Systematic
- D. Heteroskedastic

Answer: C

Explanation:

A sensor that consistently reads higher than the others exhibits a repeatable bias, which is characteristic of a systematic error.

NEW QUESTION # 37

In a modeling project, people evaluate phrases and provide reactions as the target variable for the model.

Which of the following best describes what this model is doing?

- A. TF-IDF vectorization
- B. Named-entity recognition
- C. Sentiment analysis
- D. Part-of-speech tagging

Answer: C

Explanation:

Sentiment analysis refers to using machine learning or NLP techniques to determine the sentiment or emotional tone behind a body of text (e.g., positive, neutral, or negative). When people provide reactions to phrases, the model is learning to associate language with subjective emotion or opinion.

Why the other options are incorrect:

- * B: NER identifies entities (e.g., locations, organizations) - not emotions.
- * C: TF-IDF is a feature engineering method, not a modeling goal.
- * D: POS tagging classifies words by their grammatical function - not sentiment.

Official References:

* CompTIA DataX (DY0-001) Official Study Guide - Section 6.3: "Sentiment analysis models associate textual input with subjective labels, such as emotional response or polarity."

* Applied Text Analytics, Chapter 8: "When modeling user reactions to text, sentiment classification techniques are commonly employed."

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NEW QUESTION # 38

Which of the following image data augmentation techniques allows a data scientist to increase the size of a data set?

- A. Scaling
- B. Clipping
- C. Cropping

- D. Masking

Answer: C

Explanation:

By taking multiple crops from each original image (e.g., random or sliding-window crops), you generate distinct new training examples, directly increasing the dataset size.

NEW QUESTION # 39

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