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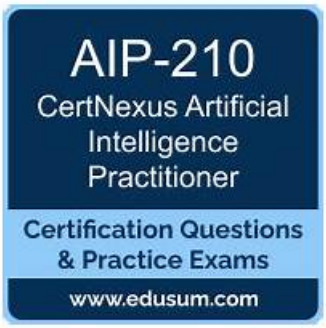

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CertNexus Certified Artificial Intelligence Practitioner (CAIP) Sample Questions (Q31-Q36):

NEW QUESTION # 31
Word Embedding describes a task in natural language processing (NLP) where:

- A. Words are featurized by taking a matrix of bigram counts.
- B. Words are grouped together into clusters and then represented by word cluster membership.
- C. Words are featurized by taking a histogram of letter counts.
- D. Words are converted into numerical vectors.

Answer: D

Explanation:
Explanation
Word embedding is a task in natural language processing (NLP) where words are converted into numerical vectors that represent their meaning, usage, or context. Word embedding can help reduce the dimensionality and sparsity of text data, as well as enable various operations and comparisons among words based on their vector representations. Some of the common methods for word embedding are:
One-hot encoding: One-hot encoding is a method that assigns a unique binary vector to each word in a vocabulary. The vector has only one element with a value of 1 (the hot bit) and the rest with a value of
0. One-hot encoding can create distinct and orthogonal vectors for each word, but it does not capture any semantic or syntactic information about words.
Word2vec: Word2vec is a method that learns a dense and continuous vector representation for each word based on its context in a large corpus of text. Word2vec can capture the semantic and syntactic similarity and relationships among words, such as synonyms, antonyms, analogies, or associations.
GloVe: GloVe (Global Vectors for Word Representation) is a method that combines the advantages of count-based methods (such as TF-IDF) and predictive methods (such as Word2vec) to create word vectors. GloVe can leverage both global and local information from a large corpus of text to capture the co-occurrence patterns and probabilities of words.

NEW QUESTION # 32
Which two of the following statements about the beta value in an A/B test are accurate? (Select two.)

- A. The Beta in an Alpha/Beta test represents one of the two variants of the A/B test.
- B. The Beta value is the rate of type I errors for the test.
- C. The Beta value is the rate of type II errors for the test.
- D. The statistical power of a test is the inverse of the Beta value, or 1 - Beta.

Answer: C

Explanation:
Explanation
The Beta value in an A/B test is the probability of making a type II error, which is failing to reject the null hypothesis when it is false. The statistical power of a test is the probability of correctly rejecting the null hypothesis when it is false, which is equal to 1 - Beta.
References: Formulas for Bayesian A/B Testing - Evan Miller, The Practical Guide To AB testing statistics | Convertize

NEW QUESTION # 33
You train a neural network model with two layers, each layer having four nodes, and realize that the model is underfit. Which of the actions below will NOT work to fix this underfitting?

- A. Add features to training data
- B. Increase the complexity of the model
- C. Train the model for more epochs
- D. Get more training data

Answer: D

Explanation:
Underfitting is a problem that occurs when a model learns too little from the training data and fails to capture the underlying

complexity or structure of the data. Underfitting can result from using insufficient or irrelevant features, a low complexity of the model, or a lack of training data. Underfitting can reduce the accuracy and generalization of the model, as it may produce oversimplified or inaccurate predictions. Some of the ways to fix underfitting are:
* Add features to training data: Adding more features or variables to the training data can help increase the information and diversity of the data, which can help the model learn more complex patterns and relationships.
* Increase the complexity of the model: Increasing the complexity of the model can help increase its expressive power and flexibility, which can help it fit better to the data. For example, adding more layers or nodes to a neural network can increase its complexity.
* Train the model for more epochs: Training the model for more epochs can help increase its learning ability and convergence, which can help it optimize its parameters and reduce its error.
Getting more training data will not work to fix underfitting, as it will not change the complexity or structure of the data or the model. Getting more training data may help with overfitting, which is when a model learns too much from the training data and fails to generalize well to new or unseen data.

NEW QUESTION # 34
Which of the following is a privacy-focused law that an AI practitioner should adhere to while designing and adapting an AI system that utilizes personal data?

- A. PCIDSS
- B. ISO/IEC 27001
- C. Sarbanes Oxley (SOX)
- D. General Data Protection Regulation (GDPR)

Answer: D

Explanation:
Explanation
The General Data Protection Regulation (GDPR) is a privacy-focused law that an AI practitioner should adhere to while designing and adapting an AI system that utilizes personal data. The GDPR applies to any organization that processes personal data of individuals in the European Union (EU), regardless of where the organization is located. The GDPR grants individuals rights over their personal data, such as the right to access, rectify, erase, restrict, or object to its processing. The GDPR also imposes obligations on organizations that process personal data, such as the duty to obtain consent, conduct data protection impact assessments, implement data protection by design and by default, and ensure accountability and transparency. The GDPR also addresses some specific issues related to AI, such as automated decision-making, profiling, and data portability.

NEW QUESTION # 35
Which of the following equations best represent an LI norm?

- A. |x| + |y|
- B. |x|