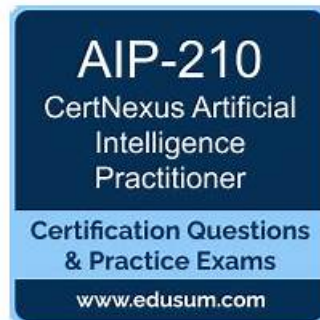


AIP-210試験の準備方法 |効果的なAIP-210模擬対策問題試験 |有難いCertNexus Certified Artificial Intelligence Practitioner (CAIP)関連日本語内容



BONUS!!! ShikenPASS AIP-210ダンプの一部を無料でダウンロード: https://drive.google.com/open?id=1Yq1bFaaDaKkbd_8VPcpo2iz4NVqYtG

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>> AIP-210模擬対策問題 <<

AIP-210関連日本語内容 & AIP-210更新版

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CertNexus Certified Artificial Intelligence Practitioner (CAIP) 認定 AIP-210 試験問題 (Q50-Q55):

質問 # 50

Which of the following models are text vectorization methods? (Select two.)

- A. TF-IDF
- B. Tokenization
- C. t-SNE
- D. Lemmatization
- E. Skip-gram
- F. PCA

正解: A、E

解説:

Explanation

Skip-gram and TF-IDF are both text vectorization methods that convert text into numerical feature vectors.

Skip-gram is a prediction-based word embedding method that learns vector representations of words from their contexts in a large corpus of text. TF-IDF is a frequency-based word weighting method that assigns scores to words based on their importance in a document and in a corpus of documents. References: Text Vectorization and Word Embedding | Guide to Master NLP (Part 5), What Is Text Vectorization? Everything You Need to Know - deepset

質問 # 51

Which of the following text vectorization methods is appropriate and correctly defined for an English-to- Spanish translation machine?

- A. Using Word2vec because in translation machines, we do not care about the order of the words.
- B. Using TF-IDF because in translation machines, we need to consider the order of the words.
- C. Using Word2vec because in translation machines, we need to consider the order of the words.
- D. Using TF-IDF because in translation machines, we do not care about the order of the words.

正解: C

解説:

Text vectorization is a technique that converts text into numerical vectors that can be used by machine learning models. Text vectorization can use different methods to represent text features, such as word frequency, word order, word meaning, or word context. Some of the common text vectorization methods are:

* TF-IDF: TF-IDF (term frequency-inverse document frequency) is a method that assigns a weight to each word based on its frequency in a document and its rarity across a collection of documents. TF-IDF can capture the importance and relevance of words for a given topic or domain, but it does not consider the order or meaning of words.

* Word2vec: Word2vec is a method that learns a 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, as well as preserve the order of words. For an English-to-Spanish translation machine, using Word2vec would be appropriate and correctly defined, because in translation machines, we need to consider the order of the words, as well as their meaning and context.

質問 # 52

An AI system recommends New Year's resolutions. It has an ML pipeline without monitoring components. What retraining strategy would be BEST for this pipeline?

- A. Periodically every year
- B. When concept drift is detected
- C. Periodically before New Year's Day and after New Year's Day
- D. When data drift is detected

正解: A

解説:

Explanation

Retraining is the process of updating an existing ML model with new or updated data to maintain or improve its performance and relevance. Retraining can help address various issues or challenges in ML systems, such as data drift, concept drift, model degradation, or changing requirements. Retraining can be done using different strategies, such as periodically, continuously, or on-demand.

For an AI system that recommends New Year's resolutions, retraining periodically every year would be the best strategy for this pipeline. This is because New Year's resolutions are seasonal and time-sensitive, meaning that they may vary depending on the year

or the current situation. Retraining periodically every year can help ensure that the system's recommendations are up-to-date and relevant for each new year.

質問 # 53

Which of the following is a common negative side effect of not using regularization?

- A. Slow convergence time
- B. Higher compute resources
- C. Low test accuracy
- **D. Overfitting**

正解: D

解説:

Explanation

Overfitting is a common negative side effect of not using regularization. Regularization is a technique that reduces the complexity of a model by adding a penalty term to the loss function, which prevents the model from learning too many parameters that may fit the noise in the training data. Overfitting occurs when the model performs well on the training data but poorly on the test data or new data, because it has memorized the training data and cannot generalize well. References: Regularization (mathematics) - Wikipedia, Overfitting in Machine Learning: What It Is and How to Prevent It

質問 # 54

Which of the following regressions will help when there is the existence of near-linear relationships among the independent variables (collinearity)?

- A. Clustering
- B. Linear regression
- **C. Ridge regression**
- D. Polynomial regression

正解: C

解説:

Ridge regression is a type of regularization technique that can help reduce collinearity among independent variables. It does this by adding a penalty term to the ordinary least squares (OLS) objective function, which shrinks the coefficients of highly correlated variables towards zero. This reduces the variance of the coefficient estimates and improves the stability and accuracy of the regression model.

References: Multicollinearity in Regression Analysis: Problems, Detection, and Solutions - Statistics By Jim, A Beginner's Guide to Collinearity: What it is and How it affects our regression model - StrataScratch

質問 # 55

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