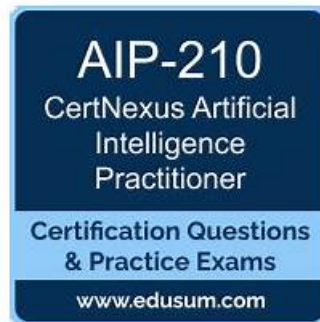


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CertNexus AIP-210 Exam Syllabus Topics:

Topic	Details
Topic 1	<ul style="list-style-type: none">• Design machine and deep learning models• Explain data collection• transformation process in ML workflow
Topic 2	<ul style="list-style-type: none">• Address business risks, ethical concerns, and related concepts in training and tuning• Work with textual, numerical, audio, or video data formats
Topic 3	<ul style="list-style-type: none">• Recognize relative impact of data quality and size to algorithms• Engineering Features for Machine Learning
Topic 4	<ul style="list-style-type: none">• Transform numerical and categorical data• Address business risks, ethical concerns, and related concepts in operationalizing the model
Topic 5	<ul style="list-style-type: none">• Train, validate, and test data subsets• Training and Tuning ML Systems and Models
Topic 6	<ul style="list-style-type: none">• Understanding the Artificial Intelligence Problem• Analyze the use cases of ML algorithms to rank them by their success probability

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CertNexus Certified Artificial Intelligence Practitioner (CAIP) Sample Questions (Q24-Q29):

NEW QUESTION # 24

Which of the following items should be included in a handover to the end user to enable them to use and run a trained model on their own system? (Select three.)

- A. Intermediate data files
- B. Link to a GitHub repository of the codebase
- C. Information on the folder structure in your local machine
- D. Sample input and output data files
- E. README document

Answer: B,D,E

Explanation:

Explanation

A handover is the process of transferring the ownership and responsibility of an ML system from one party to another, such as from the developers to the end users. A handover should include all the necessary information and resources that enable the end users to use and run a trained model on their own system. Some of the items that should be included in a handover are:

Link to a GitHub repository of the codebase: A GitHub repository is an online platform that hosts the source code and version control of an ML system. A link to a GitHub repository can provide the end users with access to the latest and most updated version of the codebase, as well as the history and documentation of the changes made to the code.

README document: A README document is a text file that provides an overview and instructions for an ML system. A README document can include information such as the purpose, features, requirements, installation, usage, testing, troubleshooting, and license of the system.

Sample input and output data files: Sample input and output data files are data files that contain examples of valid inputs and expected outputs for an ML system. Sample input and output data files can help the end users understand how to use and run the system, as well as verify its functionality and performance.

NEW QUESTION # 25

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

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

Answer: B,F

Explanation:

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

NEW QUESTION # 26

When should the model be retrained in the ML pipeline?

- A. A new monitoring component is added.
- B. More data become available for the training phase.
- **C. Concept drift is detected in the pipeline.**
- D. Some outliers are detected in live data.

Answer: C

Explanation:

Explanation

When concept drift is detected in the pipeline, it means that the model performance has degraded over time due to changes in the underlying data generating process. This requires retraining the model with new data that reflects the current situation and updating the model parameters accordingly. References: Use pipeline parameters to retrain models in the designer - Azure Machine Learning | Microsoft Learn, Retraining Model During Deployment: Continuous Training and Continuous Testing

NEW QUESTION # 27

You and your team need to process large datasets of images as fast as possible for a machine learning task.

The project will also use a modular framework with extensible code and an active developer community.

Which of the following would BEST meet your needs?

- A. Keras
- B. Microsoft Cognitive Services
- **C. Caffe**
- D. TensorBoard

Answer: C

Explanation:

Explanation

Caffe is a deep learning framework that is designed for speed and modularity. It can process large datasets of images efficiently and supports various types of neural networks. It also has a large and active developer community that contributes to its code base and documentation. Caffe is suitable for image processing tasks such as classification, segmentation, detection, and recognition

NEW QUESTION # 28

Which of the following describes a typical use case of video tracking?

- A. Augmented dreaming
- **B. Traffic monitoring**
- C. Medical diagnosis
- D. Video composition

Answer: B

Explanation:

Video tracking is a technique that involves detecting and following moving objects in a video sequence.

Video tracking can be used for various applications, such as surveillance, security, sports analysis, and human- computer interaction.

One typical use case of video tracking is traffic monitoring, where video tracking can help measure traffic flow, detect congestion, identify violations, and optimize traffic signals.

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