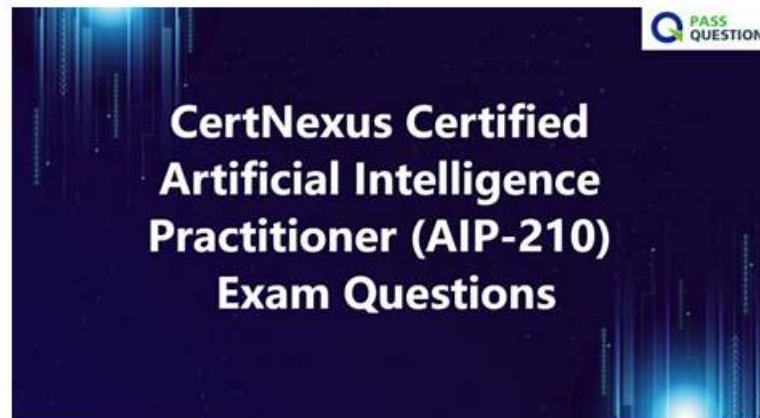


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Topic	Details
Topic 1	<ul style="list-style-type: none">• Train, validate, and test data subsets• Training and Tuning ML Systems and Models
Topic 2	<ul style="list-style-type: none">• Understanding the Artificial Intelligence Problem• Analyze the use cases of ML algorithms to rank them by their success probability
Topic 3	<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

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CertNexus Certified Artificial Intelligence Practitioner (CAIP) Sample Questions (Q62-Q67):

NEW QUESTION # 62

Which of the following scenarios is an example of entanglement in ML pipelines?

- A. Change in normalization function in the feature engineering step.

- B. Add a new method for drift detection in the model evaluation step.
- C. Add a new pipeline for retraining the model in the model training step.
- D. Change the way output is visualized in the monitoring step.

Answer: A

Explanation:

Entanglement in ML pipelines occurs when a change in one step affects other steps that depend on it.

Changing the normalization function in the feature engineering step would affect the model training and evaluation steps, as they rely on the features generated by the feature engineering step. Therefore, this scenario is an example of entanglement in ML pipelines.

The other scenarios are not examples of entanglement, as they do not affect other steps in the pipeline.

NEW QUESTION # 63

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

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

Answer: C

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

NEW QUESTION # 64

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

Answer: C,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 # 65

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

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

Answer: E,F

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 # 66

Which of the following sentences is TRUE about the definition of cloud models for machine learning pipelines?

- A. Platform as a Service (PaaS) can provide some services within an application such as payment applications to create efficient results.
- B. Infrastructure as a Service (IaaS) can provide CPU, memory, disk, network and GPU.
- C. Software as a Service (SaaS) can provide AI practitioner data science services such as Jupyter notebooks.
- D. Data as a Service (DaaS) can host the databases providing backups, clustering, and high availability.

Answer: C

Explanation:

Cloud models are service models that provide different levels of abstraction and control over computing resources in a cloud environment. Some of the common cloud models for machine learning pipelines are:

* Software as a Service (SaaS): SaaS provides ready-to-use applications that run on the cloud provider's infrastructure and are accessible through a web browser or an API. SaaS can provide AI practitioner data science services such as Jupyter notebooks, which are web-based interactive environments that allow users to create and share documents that contain code, text, visualizations, and more.

* Platform as a Service (PaaS): PaaS provides a platform that allows users to develop, run, and manage applications without worrying about the underlying infrastructure. PaaS can provide some services within an application such as payment applications to create efficient results.

* Infrastructure as a Service (IaaS): IaaS provides access to fundamental computing resources such as servers, storage, networks, and operating systems. IaaS can provide CPU, memory, disk, network and GPU resources that can be used to run machine learning models and applications.






















* Data as a Service (DaaS): DaaS provides access to data sources that can be consumed by applications or users on demand. DaaS can host the databases providing backups, clustering, and high availability.

NEW QUESTION # 67

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