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## CertNexus AIP-210 Exam Syllabus Topics:

Topic	Details

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

## CertNexus Certified Artificial Intelligence Practitioner (CAIP) Sample Questions (Q36-Q41):

### NEW QUESTION # 36

In addition to understanding model performance, what does continuous monitoring of bias and variance help ML engineers to do?

- A. Respond to hidden attacks
- B. Detect hidden attacks
- C. Prevent hidden attacks
- D. Recover from hidden attacks

**Answer: C**

Explanation:

Hidden attacks are malicious activities that aim to compromise or manipulate an ML system without being detected or noticed. Hidden attacks can target different stages of an ML workflow, such as data collection, model training, model deployment, or model monitoring. Some examples of hidden attacks are data poisoning, backdoor attacks, model stealing, or adversarial examples. Continuous monitoring of bias and variance can help ML engineers to prevent hidden attacks, as it can help them detect any anomalies or deviations in the data or the model's performance that may indicate a potential attack.

### NEW QUESTION # 37

For a particular classification problem, you are tasked with determining the best algorithm among SVM, random forest, K-nearest neighbors, and a deep neural network. Each of the algorithms has similar accuracy on your data. The stakeholders indicate that they need a model that can convey each feature's relative contribution to the model's accuracy. Which is the best algorithm for this use case?

- A. Random forest
- B. SVM
- C. Deep neural network
- D. K-nearest neighbors

**Answer: A**

Explanation:

Random forest is an ensemble learning method that combines multiple decision trees to create a more accurate and robust classifier or regressor. Random forest can convey each feature's relative contribution to the model's accuracy by measuring how much the prediction error increases when a feature is randomly permuted. This metric is called feature importance or Gini importance. Random forest can also provide insights into the interactions and dependencies among features by visualizing the decision trees.

### NEW QUESTION # 38

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 # 39

In which of the following scenarios is lasso regression preferable over ridge regression?

- A. There are many features with no association with the dependent variable.
- B. The number of features is much larger than the sample size.
- C. The sample size is much larger than the number of features.
- D. There is high collinearity among some of the features associated with the dependent variable.

**Answer: A**

Explanation:

Explanation

Lasso regression is a type of linear regression that adds a regularization term to the loss function to reduce overfitting and improve generalization. Lasso regression uses an L1 norm as the regularization term, which is the sum of the absolute values of the coefficients. Lasso regression can shrink some of the coefficients to zero, which effectively eliminates some of the features from the model. Lasso regression is preferable over ridge regression when there are many features with no association with the dependent variable, as it can perform feature selection and reduce the complexity and noise of the model.

### NEW QUESTION # 40

Which of the following sentences is true about model evaluation and model validation in ML pipelines?

- A. Model validation is defined as a set of tasks to confirm the model performs as expected.
- B. Model validation occurs before model evaluation.
- C. Model evaluation and validation are the same.
- D. Model evaluation is defined as an external component.

**Answer: A**

Explanation:

Explanation

Model validation is the process of checking whether the model meets the specified requirements and quality standards. It involves

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