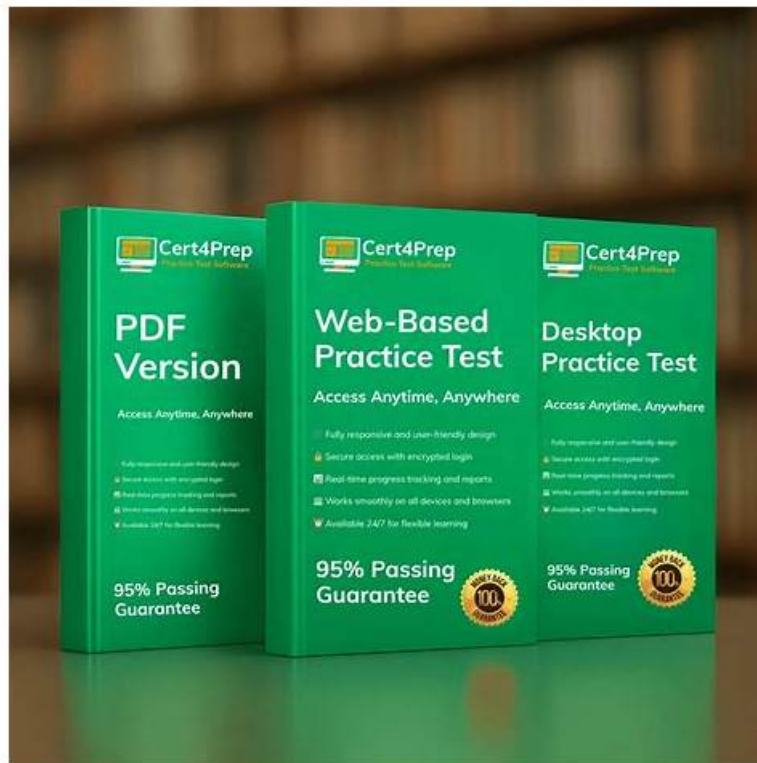


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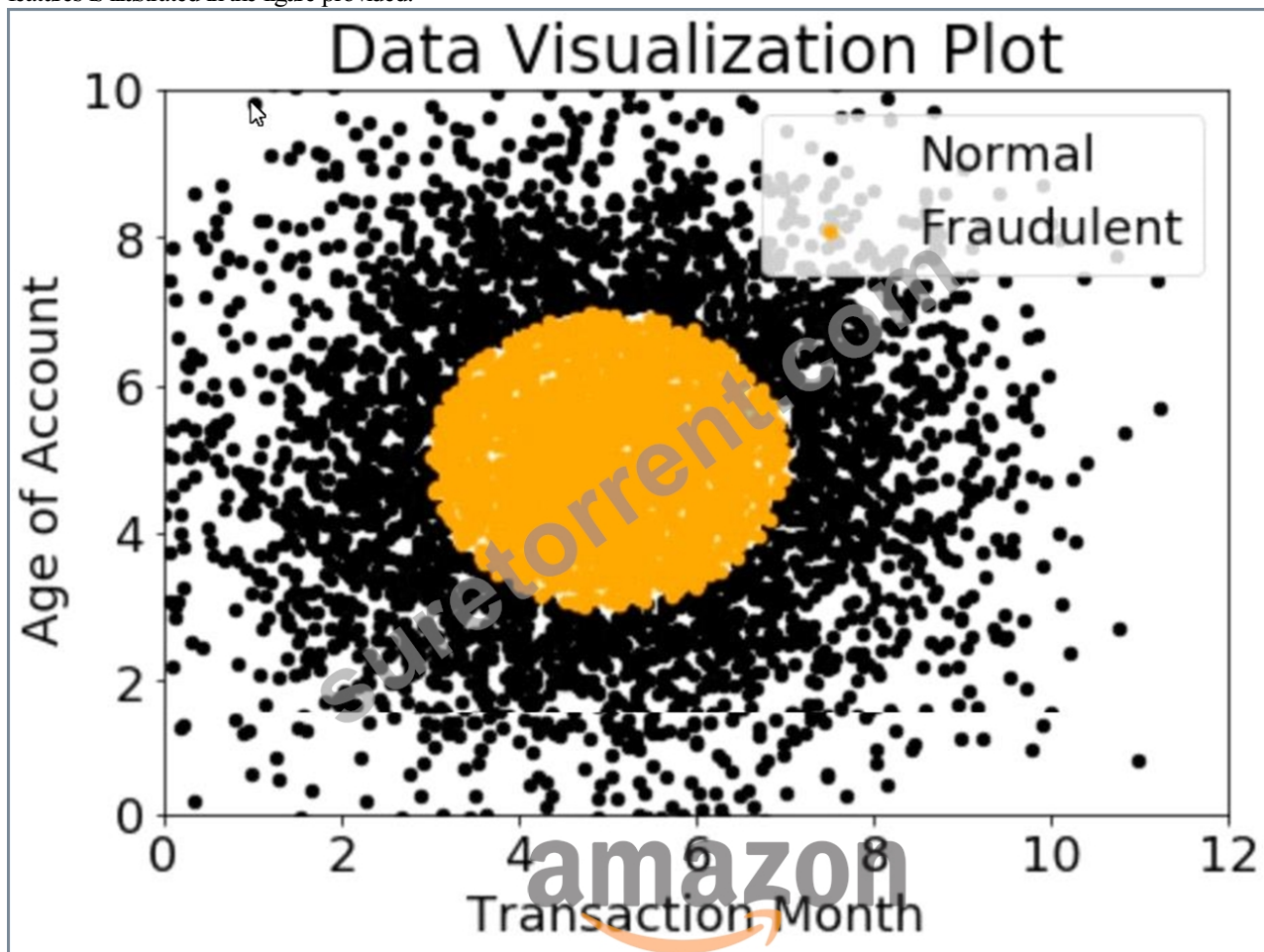
Certification Path of AWS Certified Machine Learning - Specialty

The Amazon MLS certification path includes only one certification exam.

Amazon AWS Certified Machine Learning - Specialty Sample Questions (Q86-Q91):

NEW QUESTION # 86

A company wants to classify user behavior as either fraudulent or normal. Based on internal research, a Machine Learning Specialist would like to build a binary classifier based on two features: age of account and transaction month. The class distribution for these features is illustrated in the figure provided.



Based on this information, which model would have the HIGHEST recall with respect to the fraudulent class?

- A. Single Perceptron with sigmoidal activation function
- B. Linear support vector machine (SVM)
- C. Naive Bayesian classifier
- D. Decision tree

Answer: C

NEW QUESTION # 87

A machine learning (ML) engineer is preparing a dataset for a classification model. The ML engineer notices that some continuous numeric features have a significantly greater value than most other features. A business expert explains that the features are independently informative and that the dataset is representative of the target distribution. After training, the model's inferences accuracy is lower than expected.

Which preprocessing technique will result in the GREATEST increase of the model's inference accuracy?

- A. Bootstrap the problematic features.
- **B. Normalize the problematic features.**
- C. Remove the problematic features.
- D. Extrapolate synthetic features.

Answer: B

Explanation:

In a classification model, features with significantly larger scales can dominate the model training process, leading to poor performance. Normalization scales the values of continuous features to a uniform range, such as [0, 1], which prevents large-value features from disproportionately influencing the model. This is particularly beneficial for algorithms sensitive to the scale of input data, such as neural networks or distance-based algorithms.

Given that the problematic features are informative and representative of the target distribution, removing or bootstrapping these features is not advisable. Normalization will bring all features to a similar scale and improve the model's inference accuracy without losing important information.

NEW QUESTION # 88

A machine learning (ML) developer for an online retailer recently uploaded a sales dataset into Amazon SageMaker Studio. The ML developer wants to obtain importance scores for each feature of the dataset. The ML developer will use the importance scores to feature engineer the dataset.

Which solution will meet this requirement with the LEAST development effort?

- **A. Use SageMaker Data Wrangler to perform a Gini importance score analysis.**
- B. Use a SageMaker notebook instance to perform principal component analysis (PCA).
- C. Use the multicollinearity feature to perform a lasso feature selection to perform an importance scores analysis.
- D. Use a SageMaker notebook instance to perform a singular value decomposition analysis.

Answer: A

Explanation:

SageMaker Data Wrangler is a feature of SageMaker Studio that provides an end-to-end solution for importing, preparing, transforming, featurizing, and analyzing data. Data Wrangler includes built-in analyses that help generate visualizations and data insights in a few clicks. One of the built-in analyses is the Quick Model visualization, which can be used to quickly evaluate the data and produce importance scores for each feature. A feature importance score indicates how useful a feature is at predicting a target label. The feature importance score is between [0, 1] and a higher number indicates that the feature is more important to the whole dataset. The Quick Model visualization uses a random forest model to calculate the feature importance for each feature using the Gini importance method. This method measures the total reduction in node impurity (a measure of how well a node separates the classes) that is attributed to splitting on a particular feature. The ML developer can use the Quick Model visualization to obtain the importance scores for each feature of the dataset and use them to feature engineer the dataset. This solution requires the least development effort compared to the other options.

References:

* Analyze and Visualize

* Detect multicollinearity, target leakage, and feature correlation with Amazon SageMaker Data Wrangler

NEW QUESTION # 89

Example Corp has an annual sale event from October to December. The company has sequential sales data from the past 15 years and wants to use Amazon ML to predict the sales for this year's upcoming event. Which method should Example Corp use to split the data into a training dataset and evaluation dataset?

- A. Pre-split the data before uploading to Amazon S3
- B. Have Amazon ML split the data randomly.
- **C. Have Amazon ML split the data sequentially.**
- D. Perform custom cross-validation on the data

Answer: C

NEW QUESTION # 90

A data scientist stores financial datasets in Amazon S3. The data scientist uses Amazon Athena to query the datasets by using SQL. The data scientist uses Amazon SageMaker to deploy a machine learning (ML) model. The data scientist wants to obtain inferences from the model at the SageMaker endpoint. However, when the data scientist attempts to invoke the SageMaker endpoint, the data scientist receives SQL statement failures. The data scientist's IAM user is currently unable to invoke the SageMaker endpoint. Which combination of actions will give the data scientist's IAM user the ability to invoke the SageMaker endpoint? (Select THREE.)

- A. Include an inline policy for the data scientist's IAM user that allows SageMaker to read S3 objects
- B. Perform a user remapping in SageMaker to map the IAM user to another IAM user that is on the hosted endpoint.
- C. Include a policy statement for the data scientist's IAM user that allows the IAM user to perform the `sagemaker:InvokeEndpoint` action.
- D. Include a policy statement for the data scientist's IAM user that allows the IAM user to perform the `sagemaker:GetRecord` action.
- E. Include the SQL statement `"USING EXTERNAL FUNCTION ml_function_name"` in the Athena SQL query.
- F. Attach the `AmazonAthenaFullAccess` AWS managed policy to the user identity.

Answer: A,C,E

Explanation:

Explanation

The correct combination of actions to enable the data scientist's IAM user to invoke the SageMaker endpoint is B, C, and E, because they ensure that the IAM user has the necessary permissions, access, and syntax to query the ML model from Athena. These actions have the following benefits:

B: Including a policy statement for the IAM user that allows the `sagemaker:InvokeEndpoint` action grants the IAM user the permission to call the SageMaker Runtime `InvokeEndpoint` API, which is used to get inferences from the model hosted at the endpoint¹.

C: Including an inline policy for the IAM user that allows SageMaker to read S3 objects enables the IAM user to access the data stored in S3, which is the source of the Athena queries².

E: Including the SQL statement `"USING EXTERNAL FUNCTION ml_function_name"` in the Athena SQL query allows the IAM user to invoke the ML model as an external function from Athena, which is a feature that enables querying ML models from SQL statements³.

The other options are not correct or necessary, because they have the following drawbacks:

A: Attaching the `AmazonAthenaFullAccess` AWS managed policy to the user identity is not sufficient, because it does not grant the IAM user the permission to invoke the SageMaker endpoint, which is required to query the ML model⁴.

D: Including a policy statement for the IAM user that allows the IAM user to perform the `sagemaker:GetRecord` action is not relevant, because this action is used to retrieve a single record from a feature group, which is not the case in this scenario⁵.

F: Performing a user remapping in SageMaker to map the IAM user to another IAM user that is on the hosted endpoint is not applicable, because this feature is only available for multi-model endpoints, which are not used in this scenario.

References:

1: `InvokeEndpoint` - Amazon SageMaker

2: Querying Data in Amazon S3 from Amazon Athena - Amazon Athena

3: Querying machine learning models from Amazon Athena using Amazon SageMaker | AWS Machine Learning Blog

4: `AmazonAthenaFullAccess` - AWS Identity and Access Management

5: `GetRecord` - Amazon SageMaker Feature Store Runtime

6: [Invoke a Multi-Model Endpoint - Amazon SageMaker]

NEW QUESTION # 91

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