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Patent Search

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Abstract:

Implementation of new data augmentation techniques for improving classification performance in credit card fraud detection is the proposed invention. The propose focuses on studying the classification performance in credit card fraud detection. The invention focuses on analyzing the parameters of credit card fraud detection us algorithms of New Data Augmentation techniques.

Complete Specification

Description:[0001] Background description includes information that may be useful in understanding the present invention. It is not an admission that any of th information provided herein is prior art or relevant to the presently claimed invention, or that any publication specifically or implicitly referenced is prior art.

[0002] Data augmentation is a technique of artificially increasing the training set by creating modified copies of a dataset using existing data. It includes making rr changes to the dataset or using deep learning to generate new data points. Data augmentation is the addition of new data artificially derived from existing training Techniques include resizing, flipping, rotating, cropping, padding, etc. It helps to address issues like overfitting and data scarcity, and it makes the model robust with performance.

[0003] A number of different types of credit card fraud detection systems that are known in the prior art. For example, the following patents are provided for their supportive teachings and are all incorporated by reference.

[0004] Improving Classification Performance in Credit Card Fraud Detection by Using New Data Augmentation: - In many industrialized and developing nations, cr cards are one of the most widely used methods of payment for online transactions. Credit card invention has streamlined, facilitated, and enhanced internet transa has, however, also given criminals more opportunities to commit fraud, which has raised the rate of fraud. Credit card fraud has a concerning global impact; many businesses and ordinary users have lost millions of US dollars as a result. Since there is a large number of transactions, many businesses and organizations rely hee applying machine learning techniques to automatically classify or identify fraudulent transactions. As the performance of machine learning techniques greatly depe the quality of the training data, the imbalance in the data is not a trivial issue. In general, only a small percentage of fraudulent transactions are presented in the da greatly affects the performance of machine learning classifiers. In order to deal with the rarity of fraudulent occurrences, this paper investigates a variety of data

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