Abstract

Now a days online transactions have become an important and necessary part of our lives. As frequency of transactions is increasing, number of fraudulent transactions are also increasing rapidly. In order to reduce fraudulent transactions, machine learning algorithms like Naïve Bayes, Logistic regression, J48 and AdaBoost etc. are discussed in this paper. The same set of algorithms are implemented and tested using an online dataset. Through comparative analysis it can be concluded that Logistic regression and AdaBoost algorithms perform better in fraud detection.

References

2. You Dai, Jin Yan, Xiaoxin Tang, Han Zhao and Minyi Guo, "Online Credit CardFraud
Credit card Fraud Detection based on Machine Learning Algorithms


4. Kosemani Temitayo Hafiz, Dr. Shaun Aghili and Dr. Pavol Zavarsky, “The Use of Predictive Analytics Technology to Detect Credit Card Fraud in Canada” ,

5. N.Malini and Dr.M.Pushpa , "Analysis on Credit Card Fraud Identification Techniques based on KNN and Outlier Detection" , 3rd International Conference on Advances in Electrical, Electronics, Information, Communication and Bio-Informatics (AEEEICB17) , 2017


10. Sarween Zaza and Mostafa Al-Emran, "Mining and Exploration of Credit Cards Data in UAE", Fifth International Conference on e-Learning , pp 275-79 , 2015


20. R. Brause, et.al., “Neural Data Mining for Credit Card Fraud Detection”

credit card transactions”, IEEE 4th International Conference on Knowledge-Based Engineering and Innovation (KBEI), pp 0630 – 0633, 2017


Index Terms

Computer Science Security

Keywords

Credit card, Fraud detection, Machine learning, supervised learning, Naïve Bayes, Logistic regression, J48, AdaBoost