IJDACR ISSN: 2319-4863



International Journal Of Digital Application & Contemporary Research

International Journal of Digital Application & Contemporary Research Website: www.ijdacr.com (Volume 10, Issue 07, February 2022)

Credit Card Fraud Detection using BPSO based Features and Random Forest Classifier

Dr. Hemant N. Patel Assistant Professor, Computer Engineering, Sankalchand Patel College of Engineering, hp15284@gmail.com Dr. Amit N. Patel
Associate Professor,
MBA Department,
Sankalchand Patel College of
Engineering
amitnpatel1@gmail.com

Mr. Sunil P. Patel
Assistant Professor,
Sankalchand Patel College of
Engineering,
sunilpatel148@gmail.com

Abstract - Credit card fraud is a social problem that faces many ethical challenges and poses a serious threat to businesses around the world. Machine learning algorithms are used to detect fraudulent transactions by authors. This study presents an implementation of an automated credit card fraud detection system where pre-processing the data, among others. Binary particle swarm optimization (BPSO) algorithm are used for selection of features with random forest (RF) classifier for training and testing from Kaggle dataset. Sensitivity, precision, f-score and accuracy are used as a performance evaluation tool to evaluate the proposed technique.

Keyword - RF, Kaggle, BPSO, etc.