#### UG SEMINAR ABSTRACT

#### Academic Year: 2024-2025

**DEPARTMENT: IT**

Seminar On Credit Card Fraud Detection using Machine Learning

By Parth Anand Bramhecha Roll No*.* 33115

1. Name of the Topic: Credit Card Fraud Detection using Machine Learning

2. Topic wise contents:

* Introduction to Fraud Detection
* Background on Machine Learning Algorithms
* Overview fraud detection techniques
* XGBoost
* Logistic Regression
* Random Forest algorithms
* Comparison of the various algorithms

3. References Used:

1. G. Rushin, C. Stancil, M. Sun, S. Adams and P. Beling, "Credit card fraud—deep learning, logistic regression, and Gradient Boosted Tree,"2020 Systems and Information Engineering Design Symposium (SIEDS), Charlottesville, VA, 2019, pp. 117-121.
2. A.A.Taha, S.J.Malebary, An intelligent approach to credit card fraud detection using-An optimized light gradient boosting machine, IEEE Access 8(2020) 25579–25587, doi:10.1109/ACCESS.2020.2971354.
3. Y. Lucas and J. Jurgovsky, ‘‘Credit card fraud detection using machine learning: A survey,’’ 2020, *arXiv:2010.06479*.
4. A. Rb and S. K. Kr, ‘‘Credit card fraud detection using artificial neural network,’’ *Global Transitions Proc.*, vol. 2, no. 1, pp. 35–41, Jun. 2021, doi: 10.1016/j.gltp.2021.01.006.
5. Emmanuel Ileberi1\*, Yanxia Sun1 and Zenghui Wang2 A machine learning based credit card fraud detection using the GA algorithm for feature selection *Proc.*, vol. 2, no. 1, pp. 35–41, 2022

Date: Student

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REMARKS BY UG SEMINAR CO-ORDINATOR:

Date: \_\_\_\_\_\_\_ \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

UG Seminar Coordinator