



Aditya College of Engineering & Technology

Aditya Nagar, ADB Road, Surampalem - 533437

DEPARTMENT OF INFORMATION TECHNOLOGY

B. Tech 4/4, II-SEMESTER

II Semester 2021-22

CREDIT CARD FRAUD TRANSACTION DETECTION USING MACHINE LEARNING

ABSTRACT

Credit card fraud transaction is a dishonest act and behavior to obtain information without the proper authorization from the account holder for financial gain. Some of the common fraud techniques are skimming, phishing, Counterfeit cards which are the ways of duplicating information. An advanced way of detecting the fraud is to use advanced data mining technology to analyse the historical transactions behavior deeply, find out the hidden knowledge and rules and then develop a model that can evaluate the risk degree of each transaction and states whether the transaction is legit or fraud transaction.

Several libraries like NumPy, panda, scikit-learn(sklearn) and several classification algorithms like logistic regression, decision tree classification, random forest etc. are used and best accuracy.

Course Outcomes (COs)

Course Outcomes

After completing this course, the student will be able to:

CO Number	CO Statement	Taxonomy
CO1	Demonstrate the technical knowledge to identify problems in the field of Information Technology and its allied areas.	Understand
CO2	Use literature to identify the objective, scope and the concept of the work.	Apply
CO3	Analyze and formulate technical projects with a comprehensive and systematic approach.	Analyse
CO4	Identify the modern tools to implement technical projects.	Evaluate
CO5	Design engineering solutions for solving complex engineering problems.	Create
CO6	Develop effective communication skills, professional behaviour and team work.	Understand

CO-PO/PSO MATRIX:

	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PO 9	PO 10	PO 11	PO 12	PSO 1	PSO 2	PSO 3
CO1	3	2	1	2					3	2	2	2	3	2	
CO2	2	1	2	2	1				3	2	2	2	3	3	1
CO3	1	1	3	3	1				3	2	2	2	3	2	1
CO4	3	1	3	2	3				3	2	2	2	2	3	2
CO5	3	2	3	3	3				3	2	3	2	2	1	1
CO6	1	1	1	2	1				2	3	2	2	1	1	2
Course	2.2	1.3	2.2	2.3	1.5				2.8	2.2	2.2	2.0	2.3	2.0	1.2

PO1	Engineering Knowledge	PO7	Environment & Sustainability
PO2	Problem Analysis	PO8	Ethics
PO3	Design / Development of Solutions	PO9	Individual & Team Work
PO4	Conduct Investigations of complex problems	PO10	Communication Skills
PO5	Modern Tool usage	PO11	Project Management & Finance
PO6	Engineer & Society	PO12	Life-long Learning