A MAJOR PROJECT

on

INCORPORATING DATA MINING METHODS FOR ENHANCING FRAUD DETECTION WITHIN FINANCIAL SECTORS

Submitted

In partial fulfillment for the requirement for the award of the degree of

BACHELOR OF TECHNOLOGY

in

Computer Science and Engineering.

By

J.UMA MAHESHWARA CHARY   21645A0516

Under the Guidance of

Dr. E. BALAKRISHNA

Associate Professor, Department of CSE.

Department of Computer Science & Engineering

Vaagdevi College of Engineering

(UGC Autonomous, Accredited by NAAC with "A")

Bollikunta, Khila Warangal (Mandal), Warangal Urban – 506005(T.S)

(2021-2024)

VAAGDEVI COLLEGE OF ENGINEERING

DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING

(UGC Autonomous, Accredited by NBA, Accredited by NAAC with "A")

Bollikunta, Khila Warangal (Mandal), Warangal Urban –506005(T.S)

<u>CERTIFICATE</u>

This is to certify that the major project entitled " **INCORPORATING DATA MINING METHODS FOR ENHANCING FRAUD DETECTION WITHIN FINANCIAL SECTORS** " is submitted **UMA MAHESWARA CHARY** in partial fulfillment of the requirements for the award of the Degree in **Bachelor of Technology** in Computer Science and Engineering during the academic year 2023-2024.

Dr. E. Balakrishna   Dr. N. Satyavathi

Project Guide   **Head of the Department**

External Examiner

ACKNOWLEDGEMENT

DECLARATION

I hereby declare that this project entitled **" INCORPORATING DATA MINING METHODS FOR ENHANCING FRAUD DETECTION WITHIN FINANCIAL SECTORS "** is submitted in partial fulfillment of requirements for the award of bachelor of technology at **VAAGDEVI COLLEGE OF ENGINEERING** affiliated to Jawaharlal Nehru Technology University. The report has not been submitted either in part or full for degree earlier to this University.

J.UMA MAHESHWARA CHARY   21645A0516

ABSTRACT

Fraud detection is a scenario applicable to many industries such as banking and financial sectors, insurance, healthcare, government agencies and law enforcement and more. There has been a drastic increase in recent years, pushing fraud detection more important than ever. Hundreds of millions of dollars are lost to fraud every year. Upcoding fraud is one such fraud in which a service provider acquires additional financial gain by coding a service by upgrading it even though the lesser service has been performed. Incorporating artificial intelligence with data mining and statistics help to anticipate and detect these frauds and minimize costs. Using sophisticated data mining tools, millions of transcations can be searched to spot patterns and detect fraudulent transactions. This paper gives an insight into the various datamining tools which are efficient in detecting upcoding frauds especially in the healthcare insurance sector in India.