Department :		**Computer Science and Engineering**
Academic Year :		***2021-22***
Sr. No.	**Programme Code**	**Name of the Programme**
01.	1-54J39JJ	M. Tech. (Computer Science and Engineering)

Following students have carried out their Project for the academic session 2021-22

Si.No.	**Name of the Students**	**Page No 1 To 95**
1.	AYUSH GUPTA	1-3
2.	LEENA SINGH CHANDRA	3-6
3.	PRITHA VAISHNAV	7-9
4.	SADHANA MISHRA	10-12

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G.G.Vishwavidyalaya, Bilaspur (C.G.)

TOPSIS BASED DYNAMIC ENSEMBLE MACHINE LEARNING CLASSIFIER FOR HEART DISEASE PREDICTION
REPORTS

SUBMITTED FOR AWARD OF MASTER OF TECHNOLOGY

IN

COMPUTER SCIENCE & ENGINEERING

(SCHOOL OF STUDIES OF ENGINEERING & TECHNOLOGY)

TO

GURU GHASIDAS VISHWAVIDYALAYA

BILASPUR (C.G.)

AAYUSH GUPTA
(Roll Number: 21028101)
Enrollment No.: GGV/21/01651

UNDER THE SUPERVISION OF
DR. UPASANA SINHA
(Associate Professor)

DEPARTMENT OF COMPUTER SCIENCE & ENGINEERING
SCHOOL OF STUDIES OF ENGINEERING & TECHNOLOGY
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Department of Computer Science and Engineering
School of Studies of Engineering & Technology
Guru Ghasidas Vishwavidyalaya (Central University)
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Certificate

This is to certify that the work in the thesis entitled **"**TOPSIS based Dynamic Ensemble Machine learning classifier for Heart Disease Prediction**"** submitted by **Mr. Aayush Gupta** in partial fulfillment of the requirements for the award of the degree of Master of Technology in Computer Science and Engineering during the session 2022–2023 in the department of Computer Science and Engineering, Guru Ghasidas Vishwavidyalaya, Bilaspur(Central University) is an authentic work carried out by her under my supervision and guidance.

To the best of my knowledge, the matter embodied in the thesis has not been submitted to any other University/Institute for the award of any Degree or Diploma.

Upasana

Dr. Upasana Sinha

Associate Professor

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ACKNOWLEDGEMENT

My first thanks are to the Almighty God, without whose blessings I wouldn't have been writing this "acknowledgments".

I then would like to express my heartfelt thanks to my guide, Dr. Upasana Sinha, for his guidance, support, and encouragement during the course of my master study at the Guru Ghasidas Vishwavidyalaya, Bilaspur. I am especially indebted to him for teaching me both research and writing skills, which have been proven beneficial for my current research and future career. Without his endless efforts, knowledge, patience, and answers to my numerous questions, this research would have never been possible.

I am very much indebted to Dr. Alok Kumar Singh Kushwaha, Head of the Department, Computer Science engineering, Guru Ghasidas Vishwavidyalaya, Bilaspur for his support during my work.

Finally, I thank my parents and all my family member for their unlimited support and strength. Without their dedication and dependability, I could not have pursued my MTech. degree at Guru Ghasidas Vishwavidyalaya, Bilaspur

Aayush Gupta

An Intrusion Detection System with Feature Reduction Using Ensemble Machine Learning

A dissertation-interim evaluation submitted in partial fulfillment of the requirement for the degree

of

Master of Technology

Submitted by

LEENA SINGH CHANDRA
(Roll Number: 21028102)
Enrolment No.: GGV/21/01652

Under the Supervision of
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March - 2023

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G.G.Vishwavidyalaya, Bilaspur (C.G.)

CANDIDATE'S DECLARATION

I hereby certify that the work which is being presented in the progress report entitled **"An Intrusion Detection System with Feature Reduction Using Ensemble Machine Learning"** by **Leena Singh Chandra** in partial fulfillment for the award of the degree of M.Tech (Computer Science and Engineering) submitted to the Department of Computer Science and Engineering of Guru Ghasidas Vishwavidyalaya (A Central University), Bilaspur, Chhattisgarh, India is an authentic record of my work carried out during the period from **2022-2023** under supervision of **Dr. Devendra Kumar Singh.** The matter presented in the progress report has not been submitted by me or anybody else in any other university/institute for the award of any degree/diploma. Signature of student Name: **Leena Singh Chandra** Enrolment No: **GGV/21/01652 Roll No: 21028102** This is to certify that the above statement made by the candidate is correct to the best of our knowledge. Signature of the Supervisor Dr. Devendra Kumar Singh, Assistant Professor Computer Science & Engineering.

Signature of student

Name: Leena Singh Chandra

Enrolment No.: GGV/21/01652

This is to certify that the above statement made by the candidate is correct to the best of our knowledge.

Signature of the supervisor

Dr. Devendra Kumar Singh

Assistant Professor

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TABLE OF CONTENTS

“VIDEO FORGERY DETECTION USING MACHINE LEARNING”

A dissertation-interim evaluation submitted in partial fulfillment of the requirement for the degree

Of

Master of Technology

Submitted by

Pritha Vaishnav

Enrolment no. GGV/21/01654

Under the Supervision of
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Bilaspur, Chhattisgarh
March - 2023

CANDIDATE'S DECLARATION

I hereby certify that the work which is being presented in the progress report entitled " **Video Forgery Detection using machine learning**" by " **Pritha Vaishnav** " in partial fulfillment for the award of the degree of M.Tech (Computer Science and Engineering) submitted to the Department of Computer Science and Engineering of Guru Ghasidas Vishwavidyalaya (A Central University), Bilaspur, Chhattisgarh, India is an authentic record of my work carried out during the period from **2022-2023** under supervision of **Dr. Alok Kumar Singh Kushwaha**. The matter presented in the progress report has not been submitted by me or anybody else in any other university /institute for the award of any degree/diploma.

Signature of student

Name: Pritha Vaishnav

Enrolment No: GGV/21/01654

Roll No: 21028104

This is to certify that the above statement made by the candidate is correct to the best of our knowledge.

Signature of the Supervisor

Dr. Alok Kumar Singh Kushwaha

Associate Professor

(Head of Department)

Computer Science & Engineering

TABLE OF CONTENTS

DEVELOPMENT AND VALIDATION OF MACHINE LEARNING ALGORITHMS FOR PREDICTING SPONDYLOLISTHESIS: NOVEL APPROACH.
SUBMITTED FOR AWARD OF MASTER OF TECHNOLOGY

IN

COMPUTER SCIENCE & ENGINEERING

(SCHOOL OF STUDIES OF ENGINEERING & TECHNOLOGY)

TO

GURU GHASIDAS VISHWAVIDYALAYA

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Certificate

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This is to certify that the work in the thesis entitled **"**Development and Validation of Machine Learning Algorithms for Predicting Spondylolisthesis: NOVEL APPROACH.**"** submitted by **Sadhana Mishra** in partial fulfillment of the requirements for the award of the degree of Master of Technology in Computer Science and Engineering during the session 2022–2023 in the department of Computer Science and Engineering, Guru Ghasidas Vishwavidyalaya, Bilaspur(Central University) is an authentic work carried out by her under my supervision and guidance.

To the best of my knowledge, the matter embodied in the thesis has not been submitted to any other University/Institute for the award of any Degree or Diploma

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ACKNOWLEDGEMENT

My first thanks are to the Almighty God, without whose blessings I wouldn't have been writing this "acknowledgments".

I then would like to express my heartfelt thanks to my guide, Dr. Kapil Kumar Nagwanshi, for his guidance, support, and encouragement during the course of my master study at the Guru Ghasidas Vishwavidyalaya, Bilaspur. I am especially indebted to him for teaching me both research and writing skills, which have been proven beneficial for my current research and future career. Without his endless efforts, knowledge, patience, and answers to my numerous questions, this research would have never been possible.

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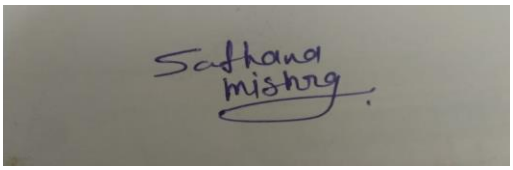

Sadhana Mishra