

JULY 2026

THE DEPARTMENT OF CSE-AIML

AAROHAN

NEWSLETTER



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ABOUT THE INSTITUTION



G.L. Bajaj Institute of Technology and Management is one of the quality driven Educational Institute in the Greater Noida. GL Bajaj stands out as one of the best engineering and management college in Uttar Pradesh and approach to assist and equip the students for their overall development, giving them a strong foundation for a successful future. The institute offers B.Tech, MBA and MCA programs.

This self financed institute is governed by Rajeev Memorial Academic Welfare Society (Registered Under Societies Registration Act 1860). It is approved by All India Council for Technical Education (AICTE), Ministry of Human Resource Development, Government of India and affiliated to Dr. A.P.J. Abdul Kalam Technical University, Lucknow.

The institute has been maintaining its positions amongst the top engineering and management colleges in AKTU university results. It has been maintaining the highest pass percentage amongst the engineering and Management colleges in Noida and Greater Noida.

MESSAGE FROM DIRECTOR



“The goal of education is the advancement of knowledge and the dissemination of truth.”

Welcome to GL Bajaj, where academics and activities never end and the students are moulded as future technocrats and business leaders. The Institute works on the vision to become one of the leading centres of teaching, research and extensions in the field of Engineering and Technology through total commitment towards quality education and training. We instil our students with the strength of character, self-confidence technical competence, and leadership in management. Further GL Bajaj spares no effort to deliver the curriculum in the most effective manner. We propagate knowledge to the students with the help of dedicated faculty, state-of-the-art library and well-equipped labs along with audio-visual theatre.

With the world becoming a global village and globalization coupled with stiff competition is making its presence felt in our country, the need of the hour is to meet such tests and challenges successfully. Hence the institute constantly scans the developments in Technology, Science and society and tries proactively to meet the challenges.

The institute has an enviable track record of academic excellence. Our placement record reflects the versatile talents of the institute's student community. As a part of GLBITM's commitment towards quality technical education and excellence, we embarked on promoting the Faculty Development Program, Seminars, Workshops, and Conferences, which keep the faculty members and the students abreast of their field.

I on behalf of GL Bajaj Institute of Technology and Management, invite you to embark on a lifetime partnership with the Institute.

Dr. Manas Kumar Mishra
Director, GLBITM

MESSAGE FROM HOD



“Education is not merely the transfer of information, but the cultivation of curiosity, innovation, and lifelong learning.”

It is my privilege to welcome you to another edition of the CSE-AIML Department Newsletter. This newsletter reflects the vibrant academic culture, innovative spirit, and collective achievements of our students and faculty throughout the semester.

Artificial Intelligence and Machine Learning are no longer emerging technologies—they are transforming every aspect of society, from healthcare and education to manufacturing, finance, and smart governance. As a department, we are committed to preparing our students to become future-ready professionals who possess not only strong technical expertise but also ethical values, leadership qualities, and a passion for continuous learning.

At the Department of CSE-AIML, we strive to create an ecosystem that seamlessly integrates academic excellence with practical exposure. Through industry collaborations, research initiatives, hackathons, innovation challenges, internships, and skill development programs, we encourage our students to think critically, solve real-world problems, and contribute meaningfully to technological advancement.

.Our faculty members continuously work towards enriching the learning experience by adopting modern pedagogical practices, integrating emerging technologies into the curriculum, and promoting interdisciplinary research aligned with the vision of NEP-2020. We firmly believe that innovation flourishes in an environment driven by curiosity, collaboration, and a commitment to excellence.

This newsletter showcases the milestones, accomplishments, and memorable moments that define our department. Every achievement featured here is a testament to the dedication, creativity, and hard work of our students, faculty members, alumni, and industry partners.

I wish all our students, faculty members, alumni, and well-wishers continued success in their academic and professional journeys.

Dr. Anurag Mishra
HOD, CSE-AIML

FACULTY MEMBERS



The Department of Computer Science and Engineering (Artificial Intelligence & Machine Learning) at GL Bajaj Institute of Technology and Management is led by a dynamic and accomplished team of faculty members renowned for their academic rigor, research achievements, and practical industry insight. Our faculties are passionate educators and innovators, dedicated to preparing the next generation of AI and ML specialists.

The department nurtures a learning environment centered around students' growth, where faculty members actively mentor, motivate, and guide learners to achieve excellence both inside and outside the classroom. With an open-door philosophy and a commitment to lifelong learning, the faculty members provide unwavering support throughout every stage of each student's academic and professional journey.

Collectively, the department faculties at GL Bajaj exemplify the institute's commitment to academic excellence, groundbreaking innovation, and the holistic development of all students.

EDITORS



HOD CSE-AIML:
DR. ANURAG MISHRA

FACULTY COORDINATOR:
MS. MAITRI MANYA
MS. ZARRISH IQRAR

EDITORS:
FACULTY:
MS. MAITRI MANYA (ASSISTANT PROFESSOR)

STUDENTS:
VAMIKA (B.TECH CSE-AIML -3rd YEAR)
DAKSH BHASIN (B.TECH CSE-AIML - 3rdYEAR)
AVISHKA (B.TECH AIML E - 3rd YEAR)

ABOUT ABHYUDAYA CLUB

DEPARTMENT OF CSE-AIML



HEAD CHAIRS

PRESIDENT

Riya Batra

VICE PRESIDENT

Kunal Rohilla

SECRETARY

Jahan Aara

Club Mail ID:

acse.club@glbitm.ac.in

Club Website:

<https://club-website-zoue.vercel.app/>

Abhyudaya, our dynamic and renowned club, is a vibrant platform for holistic development, innovation, and empowerment. It nurtures diverse talents by encouraging students to explore passions, embrace challenges, and turn ideas into action. As part of the Digital Dialogue 6.0 series, the Abhyudaya Club of the Department of Computer Science & Engineering (Artificial Intelligence & Machine Learning) successfully conducted an engaging online session via Google Meet. The event witnessed active participation from students and club members who joined the interactive discussion on Cybersecurity, Ethical Hacking, and Bug Bounty Hunting.

The session was led by Mr. Ayush Singh, an accomplished cybersecurity professional and Bug Bounty Hunter, who shared his expertise on identifying real-world security vulnerabilities and the growing significance of ethical hacking in today's digital landscape. Through practical examples and real-life experiences, he explained the methodologies used by ethical hackers, the fundamentals of bug bounty programs, and the career opportunities available in the field of cybersecurity.

Abhyudaya continues to be a driving force behind student engagement and community-driven progress, weaving a vibrant tapestry of enlightenment, innovation, and leadership.

DIGITAL DIALOGUE SESSION 6.0 – CYBERSECURITY & ETHICAL HACKING

Digital Dialogue 6.0 –

The Abhyudaya Club of the Department of Computer Science & Engineering (Artificial Intelligence & Machine Learning) successfully organized Digital Dialogue Session 6.0 on 31st March 2026 at 7:00 PM. The session featured Ayush Singh, a distinguished Bug Bounty Hunter at HackerOne, Top 10 performer in Amazon's Vulnerability Reward Program (VRP), and the Winner of the 2023 BugBountyHunter.com Live Hacking Event (LHE).

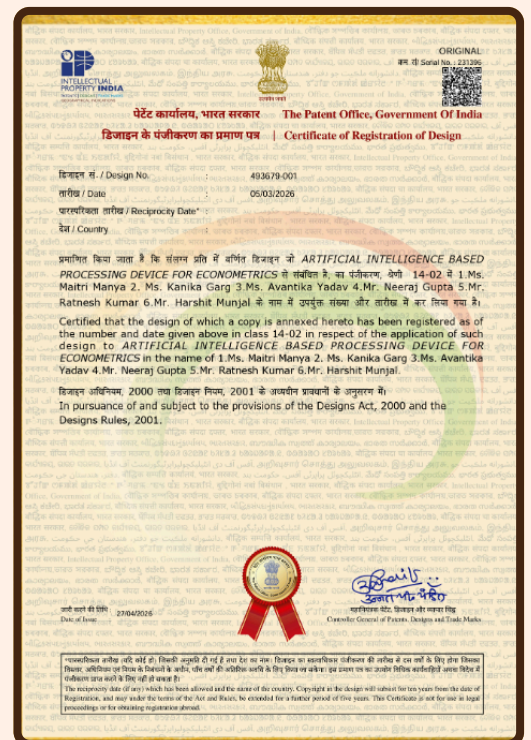
Ayush Singh shared his professional journey and explained how ethical hackers identify real-world vulnerabilities, responsibly disclose security flaws, and contribute to strengthening digital security. He also introduced students to the concept of Bug Bounty Programs, highlighting how technical expertise can be transformed into rewarding career opportunities through responsible vulnerability research. Throughout the interactive session, participants gained practical knowledge of cybersecurity fundamentals, vulnerability assessment methodologies, and the skills required to build a successful career in ethical hacking. The speaker also discussed industry expectations, learning resources, and the importance of continuous upskilling in the cybersecurity domain. The event witnessed enthusiastic participation from students, who actively engaged in discussions and sought guidance on career pathways in cybersecurity. Digital Dialogue 6.0 proved to be an inspiring and informative session, motivating students



MS. MAITRI MANYA

(Patent Grant on Artificial Intelligence based processing device for econometrics)

The Department of Computer Science and Engineering (AIML), G.L. Bajaj Institute of Technology and Management, proudly congratulates Ms. Maitri Manya for her commendable academic achievements for her successful grant of a patent by the Intellectual Property India, Government of India. The Patent titled “ARTIFICIAL INTELLIGENCE BASED PROCESSING DEVICE FOR ECONOMETRICS”. This prestigious accomplishment is a testament to her commitment to academic excellence and her significant contribution to technological innovation and intellectual property development. Her achievement serves as an inspiration to students, researchers, and fellow academicians, encouraging the pursuit of impactful research that addresses real-world challenges. Receiving a patent from the Government of India is a testament to the novelty, originality, and practical applicability of the research. This recognition not only highlights Ms. Maitri Manya's technical expertise and innovative mindset but also reinforces the importance of interdisciplinary research in advancing modern computing technologies.



MS. ZARRISH IQRAR

(International Conference On Next-Generation Adaptive Research And Innovations)



The Department of Computer Science and Engineering (AIML), G.L. Bajaj Institute of Technology and Management, proudly congratulates Ms. Zarrish Iqrar for her commendable academic and research achievement. She has successfully co-authored and presented a research paper titled “Next-Generation Adaptive Research And Innovations”. The conference provided an excellent opportunity to exchange innovative ideas, collaborate with researchers and academicians.

By presenting her research work on an international platform, Ms. Zarrish Iqrar has demonstrated her commitment to advancing knowledge and contributing to the global research community. The conference provided an excellent opportunity to exchange innovative ideas, collaborate with researchers and academicians, and gain valuable insights into the latest technological advancements and adaptive research methodologies. Her achievement is a testament to her perseverance, technical expertise, and passion for research. It not only enhances her professional growth but also brings recognition to the institution by showcasing the quality of research being undertaken by its faculty members.



MS. ZARRISH IQRAR

(International Conference On Artificial Intelligence And Internet Of things for corporate sustainability: Integration, Implementation and future prospects)



The Department of Computer Science and Engineering (AIML), G.L. Bajaj Institute of Technology and Management, proudly congratulates Ms. Zarrish Iqrar for her commendable academic and research achievement. She has successfully co-authored and presented a research paper titled “Artificial Intelligence And Internet Of things for corporate sustainability: Integration, Implementation and future prospects. Through her research presentation, Ms. Zarrish Iqrar contributed valuable insights into emerging technologies and their potential to foster sustainable business practices.

Her active participation in this prestigious conference demonstrates her commitment to scholarly excellence and interdisciplinary research. It also provided an opportunity to engage with renowned researchers, exchange innovative ideas, and stay abreast of the latest developments in AI, IoT, and sustainable technological innovations. This accomplishment brings pride to the department and highlights its growing emphasis on research, innovation, and academic excellence. Her dedication serves as an inspiration to both faculty members and students, encouraging them to pursue impactful research that contributes to technological advancement and sustainable development.



MS. ZARRISH IQRAR

(Faculty Development Programme on “Generative AI to Agentic AI: Hands on Bootcamp”)



The Department of Computer Science and Engineering (AIML), G.L. Bajaj Institute of Technology and Management, proudly congratulates Ms. Zarrish Iqrar for her commendable academic and research achievement. She has successfully co-authored and usiness practices. The program emphasized the integration of AI technologies into education, research, and industry by demonstrating how autonomous.

The "Generative AI to Agentic AI: Hands-on Bootcamp" provided an immersive learning experience focused on the latest advancements in Artificial Intelligence. The bootcamp was designed to bridge the gap between foundational Generative AI concepts and the emerging paradigm of Agentic AI, equipping participants with the knowledge and practical skills required to develop intelligent, autonomous AI systems. The bootcamp served as an excellent platform for enhancing technical competencies.



MS. ZARRISH IQRAR

(Faculty Development Programme on “Research papers, Intellectual property rights (IPR) and project proposal writing”)



The Department of Computer Science and Engineering (AIML), G.L. Bajaj Institute of Technology and Management, proudly congratulates Ms. Zarrish Iqrar for her commendable academic and research achievement. She has successfully co-authored and usiness practices. The program emphasized the integration of AI technologies into education, research, and industry .

A significant component of the programme was dedicated to Intellectual Property Rights (IPR), where participants gained valuable knowledge about patents, copyrights, trademarks, and the procedures involved in protecting innovative ideas and research outcomes.

he Faculty Development Programme (FDP) on "Research Papers, Intellectual Property Rights (IPR), and Project Proposal Writing" was organized to strengthen the research capabilities and academic excellence of faculty members. The programme provided comprehensive insights into the essential aspects of scholarly research, intellectual property protection, and the preparation of impactful research project proposals.



DR. SANTOSH KUMAR SRIVASTAVA

(Research Publications on Secure IoT Ecosystems with Blockchain Foundations)



The Department of Computer Science and Engineering (AIML), GL Bajaj Institute of Technology and Management, proudly congratulates Dr. Santosh Srivastava and the contributing authors for their research publications of Secure IoT Ecosystems with Blockchain Foundations" in the internationally acclaimed book Blockchain Solutions for Securing Internet of Things Networks, published by Scrivener Publishing LLC (Wiley).

The published chapter explores the integration of Blockchain technology with the Internet of Things (IoT) to address critical security challenges in interconnected digital ecosystems. It highlights innovative approaches for establishing secure, transparent, and decentralized IoT infrastructures, thereby contributing to the advancement of next-generation communication networks and cybersecurity. The work reflects the growing significance of blockchain-enabled solutions in ensuring data integrity, privacy, and trust in IoT environments. This scholarly contribution demonstrates the authors' dedication to high-quality research and their expertise in emerging technologies. Publication in a reputed international publication by Wiley signifies the originality, technical depth, and global relevance of their research.



DR. SANTOSH KUMAR SRIVASTAVA

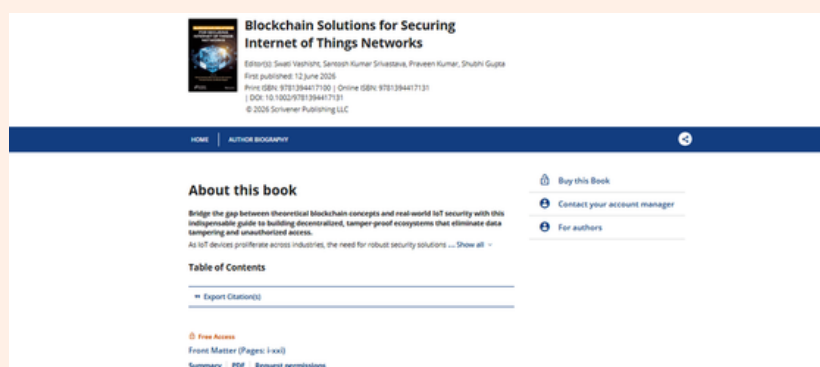
(Research Publications on “Blockchain Solutions for Securing Internet of Things Networks”)



The Department of Computer Science and Engineering (AIML), GL Bajaj Institute of Technology and Management, proudly congratulates Dr. Santosh Srivastava and the contributing authors for their research publications on the distinguished achievement of serving as an Editor for the internationally published book titled Blockchain Solutions for Securing Internet of Things Networks, published by Scrivener Publishing LLC, Wiley.

The book provides comprehensive insights into blockchain-based approaches for enhancing the security, privacy, and reliability of IoT networks, addressing contemporary challenges and future research directions in this rapidly evolving field.

As an editor, the faculty member played a pivotal role in curating, reviewing, and organizing high-quality research contributions from experts across academia and industry. The editorial responsibilities involved ensuring the technical accuracy, originality, and coherence of the published chapters while maintaining the highest standards of academic excellence. This prestigious editorial achievement enhances the institution's academic reputation and underscores its commitment to promoting quality research and knowledge dissemination. The Department extends its heartfelt congratulations on this remarkable accomplishment and wishes the faculty member continued success in future editorial, research, and academic endeavors.



DR. SANTOSH KUMAR SRIVASTAVA

(Research Publications on Deep Learning Approaches for Real-Time Tennis Match Analysis)



The Department proudly congratulates Dr. S. K. Srivastava, along with co-authors S. Vashisht, S. A. Yadav, S. K. Maakar, and H. R. Singh, on the successful publication of their research paper titled "Deep Learning Approaches for Real-Time Tennis Match Analysis" in the proceedings of the 2026 2nd International Conference on Cognitive Computing in Engineering, Communications, Sciences and Biomedical Health Informatics (IC3ECSBHI 2026).

Published in the conference proceedings (pp. 1366–1370), this work highlights the growing role of deep learning technologies in transforming sports analytics. The research presents an innovative deep learning-based framework for real-time tennis match analysis, utilizing advanced Artificial Intelligence (AI) and Computer Vision techniques to automatically detect player movements, analyze gameplay patterns, and generate performance insights. By reducing dependence on manual annotation and post-match processing, the proposed approach enables accurate, efficient, and scalable real-time sports analytics. The study has significant applications in athlete performance evaluation, strategic coaching, automated match analysis, and intelligent sports broadcasting.

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Deep Learning Approaches for Real-Time Tennis Match Analysis

Srivastava, S.K.; Vashisht, S.; Yadav, S.A.; Maakar, S.K.; Singh, H.R.

2026 2nd International Conference on Cognitive Computing in Engineering, Communications, Sciences and Biomedical Health Informatics, IC3ECSBHI 2026: 1366-1370

2026

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Summary

Deep learning technology has revolutionized real-time performance analysis and intelligent decision-making in the field of tennis. The conventional analysis methods heavily relied on manual annotation and post-event processing which is time-consuming and not applicable to large-scale or real-time applications. This paper

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Geography: 2,763,679

Social Media

DR. SANTOSH KUMAR SRIVASTAVA

(Research Publications on Intrusion Detection in Network Using Machine Learning Approaches for Network Security,")



The Department proudly congratulates Mr. M. K. Mahto, along with co-authors Dr. S. K. Srivastava, S. Vashisht, S. A. Yadav, and S. K. Maakar, on the successful publication of their research paper titled "Intrusion Detection in Network Using Machine Learning Approaches for Network Security" in the 2026 2nd International Conference on Cognitive Computing in Engineering, Communications, Sciences and Biomedical Health Informatics (IC3ECSBHI 2026), held in Greater Noida (Delhi NCR), India, on 14 April 2026.

Published in the conference proceedings (pp. 1371-1377), the paper demonstrates the authors' commitment to advancing research in Artificial Intelligence, Machine Learning, and Cybersecurity. The work highlights the growing importance of intelligent security frameworks in safeguarding digital infrastructures and ensuring secure communication across modern networks.

The research focuses on the application of Machine Learning (ML) techniques to enhance network intrusion detection systems (IDS) for strengthening cybersecurity. The proposed approach leverages intelligent algorithms to identify malicious activities, detect cyber threats in real time, and improve the accuracy and efficiency of network security mechanisms. By utilizing machine learning models for anomaly detection and attack classification, the study contributes to the development of robust and adaptive security solutions capable of addressing the ever-evolving landscape of cyber threats.

1. Introduction
The evolution of network security and the constantly evolving landscape of threats pose a challenge for network intrusion detection systems. Traditional signature-based approaches are increasingly challenged by the dynamic and adaptive nature of modern threats. Machine Learning (ML) offers a promising solution to this challenge by enabling the detection of anomalies and malicious activities based on patterns learned from historical data. This paper presents a novel machine learning-based approach for network intrusion detection, leveraging a combination of supervised and unsupervised learning techniques. The proposed system is designed to detect and classify various types of network attacks, including Denial of Service (DoS), Distributed Denial of Service (DDoS), and malware infections. The system is evaluated using a comprehensive dataset of network traffic, demonstrating its effectiveness in detecting and classifying malicious activities. The results show that the proposed system achieves a high detection rate and low false positive rate, making it a suitable solution for network intrusion detection in modern environments.

2. Related Work
The field of network intrusion detection has seen significant research in recent years. Traditional signature-based approaches have been widely used, but they are limited by their reliance on known attack signatures. Machine Learning-based approaches have gained popularity due to their ability to detect unknown threats. Various ML algorithms have been applied to network intrusion detection, including Support Vector Machines (SVM), Random Forests, and Deep Neural Networks (DNN). However, these approaches often face challenges such as high dimensionality, data imbalance, and the need for extensive feature engineering. This paper addresses these challenges by proposing a novel machine learning-based approach that combines the strengths of different ML algorithms and uses a carefully selected set of features to improve detection performance.

3. Proposed Approach
The proposed approach consists of several key components. First, a feature extraction module is used to process raw network traffic data and extract relevant features for analysis. These features include packet headers, payload characteristics, and flow statistics. The extracted features are then fed into a machine learning model, which is trained using a combination of supervised and unsupervised learning techniques. The supervised learning component is used to classify known attack types, while the unsupervised learning component is used to detect anomalies and unknown threats. The output of the machine learning model is a classification score, which is used to determine the likelihood of a network packet being malicious. The system is designed to be scalable and adaptable, allowing it to handle large volumes of network traffic and detect new types of threats as they emerge.

DR. SANTOSH KUMAR SRIVASTAVA

("Enhanced Prediction of Diabetes Using Integrated Machine Learning and Deep Learning Techniques")



The Department proudly congratulate Dr. S. K. Srivastava, on the successful publication of their research paper titled "Enhanced Prediction of Diabetes Using Integrated Machine Learning and Deep Learning Techniques" in the 2025 1st IEEE Uttar Pradesh Section Women in Engineering International Conference on Electrical, Electronics and Computer Engineering (UPWIECON 2025), held in Dehradun, India. The paper was published on 23 February 2026.

Published in the IEEE conference proceedings (pp. 1–6), the paper reflects the authors' commitment to interdisciplinary research at the intersection . The research presents an advanced predictive framework that integrates Machine Learning (ML) and Deep Learning (DL) techniques to improve the early detection and diagnosis of diabetes. By combining intelligent data analysis with powerful predictive models, the proposed approach enhances the accuracy, reliability, and efficiency of diabetes prediction. This innovative work demonstrates the transformative role of Artificial Intelligence in healthcare by enabling timely diagnosis, supporting clinical decision-making, and facilitating personalized patient care.

Enhanced Prediction of Diabetes Using Integrated Machine Learning and Deep Learning Techniques

Authors	Suman Avdhesh Yadav, Santosh Kumar Srivastava, Manoj Kumar Mahto, Ulkarsh Srivastava, Hare Ram Singh
Publication date	2025/10/30
Conference	2025 1st IEEE Uttar Pradesh Section Women in Engineering International Conference on Electrical Electronics and Computer Engineering (UPWIECON)
Pages	1-6
Publisher	IEEE
Description	Diabetes mellitus is still a considerable public health issue worldwide. Recent advances in machine learning (ML) and deep learning (DL) offer an exciting set of tools to enable early prediction and personalized treatment. This study evaluates a hybrid approach combining ML and DL algorithms to improve the predictive accuracy for diabetes. We implemented data preprocessing, feature extraction, and model tuning using the Pima Indians Diabetes dataset. Various algorithms, including Logistic Regression, Decision Tree, Random Forest, K-Nearest Neighbors, SVM, XGBoost, and Artificial Neural Networks, were compared using accuracy, precision, recall, and F1-score. The performance evaluation in this study confirms that DL models outperform traditional ML techniques in recognizing complex patterns, which can help provide better early interventions, thereby improving clinical outcomes.

DR. SANTOSH KUMAR SRIVASTAVA (Enhancing Cognitive Behavioural Insights Using Neural Networks: A Deep Learning Approach to Psychological Pattern Recognition")

The Department proudly congratulate Dr. S. K. Srivastava, on the successful publication of their research paper titled A research paper titled "Enhancing Cognitive Behavioural Insights Using Neural Networks: A Deep Learning Approach to Psychological Pattern Recognition" was published in the proceedings of the 2025 1st IEEE Uttar Pradesh Section Women in Engineering International International Conference on Electrical, Electronics and Computer Engineering (UPWIECON), held in Dehradun, India.



The study proposes a deep learning-based approach using neural networks to analyze cognitive behavioural patterns and improve psychological pattern recognition, highlighting the potential of artificial intelligence in advancing mental health assessment and behavioural analytics.

The paper was officially published on 23 February 2026. The research presents a deep learning-based framework utilizing neural networks to enhance cognitive behavioural analysis and improve the recognition of psychological patterns, contributing to advancements in the fields of artificial intelligence, machine learning, and computational psychology.



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Enhancing Cognitive Behavioural Insights Using Neural Networks: A Deep Learning Approach to Psychological Pattern Recognition

Mittal, S.; Sagar, P.; Srivastava, S.K.; Mahto, M.K.

Proceedings of 1st IEEE Uttar Pradesh Section Women in Engineering International Conference on Electrical, Electronics and Computer Engineering, UPWIECON 2025: 780-786
2025

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Accession: 105658400

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Summary

Cognitive Behavioural Therapy (CBT) is still considered a trademark in psychological interventions aimed at changing maladaptive thought patterns to alter emotional and behavioural responses. However, it is not always effective for all individuals with mental health issues.

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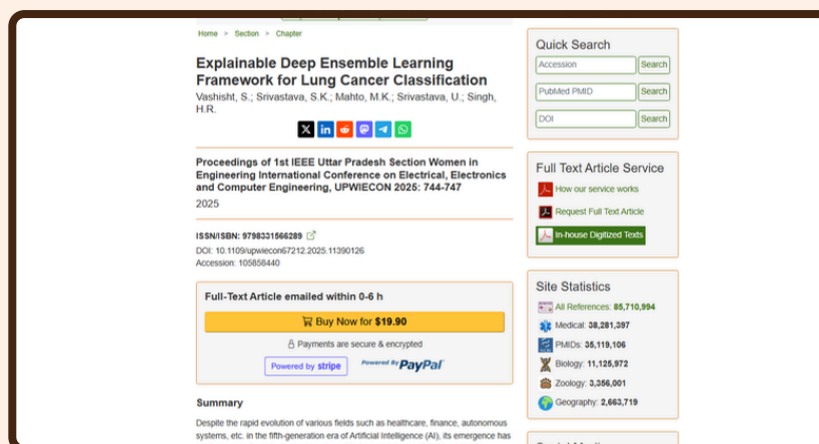
DR. SANTOSH KUMAR SRIVASTAVA

(Explainable Deep Ensemble Learning Framework for Lung Cancer Classification)

The Department proudly congratulate Dr. S. K. Srivastava, on the successful publication of their research paper titled "Explainable Deep Ensemble Learning Framework for Lung Cancer Classification", authored by S. Vashisht, S. K. Srivastava, M. K. Mahto, U. Srivastava, and H. R. Singh, was published in the proceedings of the 2025 1st IEEE Uttar Pradesh Section Women in Engineering International Conference on Electrical, Electronics and Computer Engineering (UPWIECON), held in Dehradun, India.



The proposed approach combines the predictive capabilities of multiple deep learning models with explainable artificial intelligence (XAI) techniques, enabling both high classification accuracy and transparent decision-making. By enhancing the interpretability of AI-driven medical diagnoses, the study supports clinicians in making informed decisions while promoting trust, reliability, and accountability in intelligent healthcare systems. The research contributes to the advancement of computer-aided disease diagnosis and demonstrates the growing impact of explainable AI in medical image analysis and precision healthcare.



DR. SANTOSH KUMAR SRIVASTAVA

("An Explainable Latent-Attention Hybrid Deep Learning Framework for High-Fidelity Intrusion Detection in IoT and Industrial Cyber Systems")

The Department of Computer Science and Engineering (AIML), GL Bajaj Institute of Technology and Management, proudly congratulates S.K Srivastava research paper titled "An Explainable Latent-Attention Hybrid Deep Learning Framework for High-Fidelity Intrusion Detection in IoT and Industrial Cyber Systems", authored by S. K. Srivastava has been published in the SCI Q1-indexed journal IEEE Access, Volume 14, in 2026.



The research introduces an explainable latent-attention hybrid deep learning framework designed for high-fidelity intrusion detection in Internet of Things (IoT) and industrial cyber systems. By integrating advanced deep learning techniques with explainable artificial intelligence (XAI), the proposed framework enhances the accuracy, transparency, and reliability of cyber threat detection, making a significant contribution to secure intelligent systems and next-generation cybersecurity research.

An Explainable Latent-Attention Hybrid Deep Learning Framework for High-Fidelity Intrusion Detection in IoT and Industrial Cyber Systems

ieee.org の [PDF]

著者 Shiva Gupta, Deepak Kumar Verma, Santosh Kumar Srivastava, Chirag Joshi

公開日 2026/6/9

論文誌 IEEE Access

出版社 IEEE

説明 The ever-increasing amount of diverse data being generated from the Internet of Things (IoT) and industrial cyber-physical systems is presenting new and significant challenges for intrusion detection through the use of Intrusion Detection Systems (IDS). This is due to many factors including the large volume of diverse data generated, rapid changes in attack behaviors, resource-constrained deployments on the Edge, as well as an increased need for transparency in AI-generated security decisions. Current machine learning and deep learning-based IDSs do not effectively generalize across multiple domain datasets nor are they capable of capturing long-range dependencies on the temporal dimension; they are also less explainable than other forms of defence and thus not suitable for real-time, high-fidelity defence solutions. To address these limitations, we propose an IDS called NOVA-XIDS (Novel Explainable ...

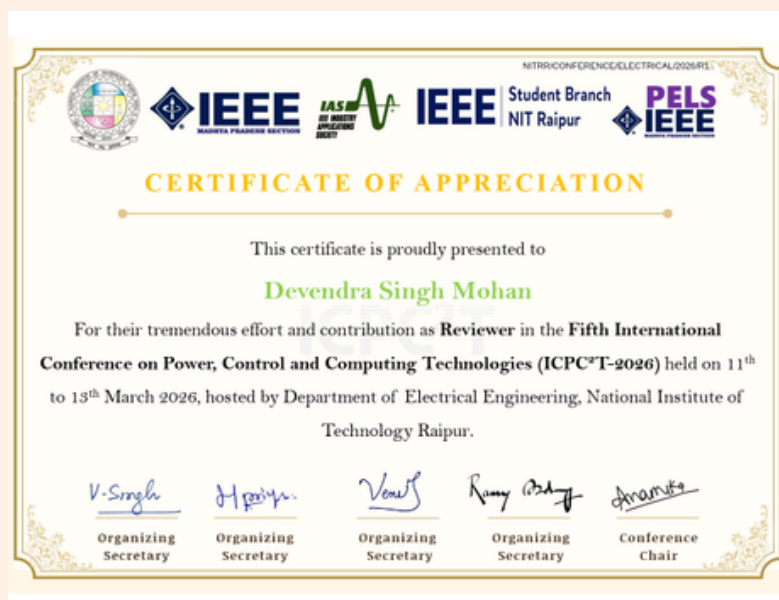
Scholar の論文 An Explainable Latent-Attention Hybrid Deep Learning Framework for High-Fidelity Intrusion Detection in IoT and Industrial Cyber Systems

S Gupta, DK Verma, SK Srivastava, C Joshi - IEEE Access, 2026
関連記事

MR. DEVENDRA SINGH MOHAN

International Conference on Power, Control and Computing Technologies (ICPC²T-2026)

The Department of Computer Science and Engineering (AIML), GL Bajaj Institute of Technology and Management, proudly congratulates Mr. Devendra Singh Mohan. This certificate recognizes Devendra Singh Mohan for serving as a Reviewer at the Fifth International Conference on Power, Control and Computing Technologies (ICPC²T-2026). The conference was held from 11th to 13th March 2026 and was organized by the Department of Electrical Engineering, National Institute of Technology (NIT) Raipur. The certificate appreciates his valuable efforts and contribution in reviewing research manuscripts, an essential responsibility that helps maintain the academic quality, originality, and technical standards of the conference proceedings.



MR. DEVENDRA SINGH MOHAN

(IPR Awareness/Training Programme organized by the Intellectual Property Office, India, under the National Intellectual Property Awareness Mission)

The Department of Computer Science and Engineering (AIML), GL Bajaj Institute of Technology and Management, proudly congratulates Mr. Devendra Singh Mohan on IPR Awareness/Training Programme successfully participated in the IPR Awareness/Training Programme organized by the Intellectual Property Office, India, under the National Intellectual Property Awareness Mission (NIPAM), an initiative of the Ministry of Commerce and Industry, Government of India. The programme aimed to enhance participants' understanding of Intellectual Property Rights (IPR), including patents, trademarks, copyrights, industrial designs, and their significance in fostering innovation, research, and entrepreneurship. The certificate, issued on 09 April 2026, recognizes his commitment to strengthening his knowledge of intellectual property protection and promoting innovation-driven academic and research practices. This achievement reflects his dedication to professional development and awareness of the importance of intellectual property in higher education and technological advancement.



MS.SHRUTHI SHARMA

(Research paper on recent Breast Cancer Categories, Detection Techniques, and Recommended Treatments)

The Department of Computer Science and Engineering (AIML), GL Bajaj Institute of Technology and Management, proudly congratulates Ms. Shruthi Sharma for her research contribution at the IEEE International Conference on research paper titled "Recent Breast Cancer Categories, Detection Techniques, and Recommended Treatments" was published in the proceedings of the 2025 Modern Electronics Devices and Communication Systems (MEDCS) conference and is indexed in the IEEE Xplore Digital Library.



The study discusses major breast cancer subtypes, including ductal carcinoma in situ (DCIS), invasive ductal carcinoma (IDC), invasive lobular carcinoma (ILC), triple-negative breast cancer, and HER2-positive breast cancer. It further examines modern diagnostic technologies such as mammography, ultrasound, magnetic resonance imaging (MRI), molecular imaging, and liquid biopsy, highlighting their role in early detection and improved patient outcomes. The paper reviews current treatment strategies, including surgery, chemotherapy, radiation therapy, hormone therapy, targeted therapy, and immunotherapy, while outlining future research directions for enhancing breast cancer diagnosis and personalized treatment.

Conferences > 2025 Modern Electronics Devices and Communication Systems (MEDCS)

Recent Breast Cancer Categories, Detection Techniques, and Recommended Treatments

Publisher: IEEE [Cite This](#) [PDF](#)

Zarnish Jigar · Avinash Kumar Pandey · Pooja Priva · Sumit Kumar Mishra · Akanksha Kumari · Shruthi Sharma [All Authors](#)

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Abstract

Unfortunately, breast cancer (BC) challenge has displeased the modern worldwide medical researchers community, because of its complexity, commonly known as a heterogeneous disease. Here, the comprehensive review actually provides a current BC panorama brief overview, which classified multiple associated categories, newly advanced detection techniques, and the recently recommended treatment methods to overcome such heterogeneous disease issues. Renowned BC assortment simply allows primary categories, including ductal carcinoma in situ (DCIS), invasive ductal carcinoma (IDC), invasive lobular carcinoma (ILC), and triple-negative, as well as HER2-positive BC, which only focus on some possible successful customised steps. Each specific category is different and required depending on the individual diagnosis for treatment techniques. An advanced detection approach has quietly come into existence, which suggests early diagnosis and improved patient results. However, ultrasound, mammography, and magnetic resonance imaging (MRI) are still crucial while screening despite several evolving technologies such as molecular imaging and liquid biopsies that not only allow early detection and its overall monitoring. Whether it is surgery or therapy like chemotherapy, radiation therapy, hormone therapy, targeted therapy, or immunotherapy, these noticeable advancements in BC treatment are true evidence of hope. Besides, the primary attention of this paper will be on BC categories, renowned detection techniques, and possible treatments. Recent advancements with future directions for the highlighted topics are further elaborated.

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Document Sections

- Introduction
- BC Categories, Detection Techniques, And Treatments
- Recent Advancements In BC Categories, Detection Techniques, And Treatments
- Challenges And Future Directions For BC Categories, Detection Techniques, And Treatments

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MS. PUJA PRIYA

(Faculty Achievement on "Research Papers, Intellectual Property Rights (IPR) and Project Proposal Writing")

The Department of Computer Science and Engineering (AIML), GL Bajaj Institute of Technology and Management, proudly congratulates Ms. Puja Priya for her research contribution at Research & Development Cell, G.L. Bajaj Institute of Technology & Management (GLBITM), Greater Noida, from 01 June 2026 to 06 June 2026 on the topic on "Research Papers, Intellectual Property Rights (IPR) and Project Proposal Writing.



The FDP focused on enhancing participants' knowledge and practical skills in research paper writing, intellectual property rights, innovation, and project proposal development. Throughout the programme, the participant actively attended all technical sessions and demonstrated a keen interest in strengthening research, innovation, and academic writing competencies. The programme encouraged interdisciplinary collaboration and motivated faculty members to actively engage in research projects, publications, and innovation-driven academic activities.



STUDENT'S ACHIEVEMENTS

PLACED AT "THALES"

THALES



DIVYANSHI SHARMA
CSE AI & ML



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The Department of Computer Science & Engineering (Artificial Intelligence & Machine Learning) extends its heartfelt congratulations to the students who have been successfully selected at Thales, marking a significant milestone in their academic and professional journey. We proudly applaud Divyanshi Sharma, Khushi Gupta, Punya Jain, Rishabh Yadav, Simran Kaur, and Gauri Verma from the CSE AI & ML department for securing placements with an impressive package of ₹8-9 LPA. This remarkable achievement is a result of their consistent hard work, strong technical skills, problem-solving abilities, and commitment to excellence throughout their academic tenure.

The selection of these students by a globally renowned organization like Thales stands as a testament to the department's emphasis on emerging technologies, practical exposure, and holistic development. The Department of CSE (AI & ML) takes immense pride in this accomplishment and wishes the students continued success, professional growth, and excellence as they embark on a promising career in the technology industry.

PLACED AT "CAPGEMINI"

Capgemini



PRINCE SHARMA
B.Tech(CSE-AI&ML)

The Department of Computer Science & Engineering (Artificial Intelligence & Machine Learning) proudly congratulates its students on their successful selection at Capgemini. We extend our heartfelt appreciation to Prince Sharma (CSE-AI & ML) for achieving this milestone through their dedication, technical proficiency, and consistent hard work. We wish them great success and growth as they begin their professional journey in the technology industry.

STUDENT'S ACHIEVEMENTS

PLACED AT "PUBLICIS SAPIENT"



publicis
sapien

The Department of CSE-AIML proudly celebrates the successful placement of its students at Publicis Sapien, marking a significant achievement for the department. Shubh Bajpai, Anjana Kumari, Himanshi, and Himanshu Mishra have secured offers with an impressive package of ₹5.1 LPA.

This accomplishment reflects their strong technical skills and academic dedication.

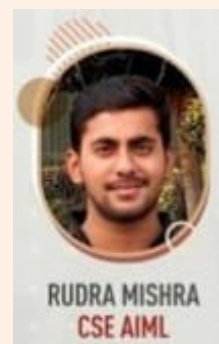
Their consistent efforts and commitment to learning played a key role in this success. The achievement also highlights the quality of training and mentoring provided by the department.

Faculty guidance and continuous evaluation contributed significantly to their preparedness. Such milestones reinforce the department's focus on industry-oriented learning. The success of these students brings pride to the institution. Their journey serves as motivation for juniors and peers alike. The department wishes them continued success in their professional careers.

PLACED AT "GENPACT"



genpact



The Department of CSE-AIML proudly congratulates its students on their successful placement at Genpact with a package of ₹4.68 LPA. Dheeraj Fulara, Rudra Mishra, and Vardhman Gupta have demonstrated strong technical competence, consistent effort, and professional readiness throughout their academic journey. Their achievement reflects the effectiveness of the department's industry-oriented curriculum and continuous mentoring. This success brings pride to the AIML department and serves as an inspiration for fellow students to strive for excellence and career growth.

STUDENT'S ACHIEVEMENTS

AT IET KK WAGH EXPO IN NASHIK.



A student team from G.L. Bajaj Institute of Technology and Management, Greater Noida, mentored by faculty members, secured the Second Prize in the Pitching Battle at the prestigious IET K K Wagh Expo'26, a National Level Working Model Contest organized by the Department of Electrical Engineering, K. K. Wagh Institute of Engineering Education and Research (KKWIEER), Nashik, in association with the Institution of Engineering and Technology (IET), UK - Nashik Local Network. The event brought together innovative projects and working models from institutions across the country, providing a platform for students to showcase their technical expertise, creativity, and entrepreneurial mindset. The team's outstanding presentation, innovative approach, and effective demonstration of their project earned them recognition among the top participants. The achievement was acknowledged with a Certificate of Excellence, a Second Prize Trophy, and a cash prize, presented during the valedictory ceremony by distinguished academicians and industry experts. This accomplishment reflects the institute's commitment to fostering innovation, research, and experiential learning while encouraging students to excel in national-level technical competitions.

STUDENT'S ACHIEVEMENTS



NAME : DIVIK DUBEY

BRANCH : CSE-AIML

Successfully completed an online certification course titled “Introduction to Generative AI Studio”, powered by Google Cloud and offered by Simplilearn SkillUp on 8 February 2026. The course provided foundational knowledge of generative AI concepts and tools, enhancing his understanding of modern AI technologies.

NAME : AAKASH DEEP SINGH

BRANCH : CSE-AIML

Successfully completed a hands-on program titled “Unix for AI Minds” organized by AI for Better Life on 9 February 2026. The program provided foundational knowledge of UNIX concepts and practical skills essential for AI and technical applications.



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