

OCTOBER
2025

THE NEWSLETTER

DEPARTMENT OF CSE

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About: The legacy behind Excellence

GL Bajaj Institute of Technology and Management: A Premier Institution in North India

GL Bajaj Institute of Technology and Management, Greater Noida, is one of the leading self-financed educational institutions in the Delhi-NCR region. Established under the esteemed Rajeev Memorial Academic Welfare Society (Registered under the Societies Registration Act, 1860), the institute is approved by the All India Council for Technical Education (AICTE), Ministry of Education, Government of India, and is affiliated with Dr. A.P.J. Abdul Kalam Technical University (AKTU), Lucknow.

GL Bajaj stands out not only for its academic rigor but also for its commitment to nurturing well-rounded individuals equipped with the skills and values required for a successful future. The institute consistently maintains one of the highest pass percentages among engineering and management colleges affiliated with AKTU in the Noida and Greater Noida region.

Over the past eight years, GL Bajaj has secured a distinguished position in AKTU university results and is widely recognized among the top institutions in North India.





Institutional & Departmental Ethos

Vision of the Institute

To be an institute of repute, providing globally competent and socially sensitive professionals

Mission of the Institute

- To equip with the latest technologies to be globally competitive professionals.
- To inculcate qualities of leadership, professionalism, corporate understanding and executive competence.
- To imbibe and enhance human values, ethics and morals in our students.

Department Vision

M1 : Developing a strong mathematical & computing skill set among the students.

M2 : Extending the role of computer science and engineering in diverse areas like Internet of Things (IoT), Artificial Intelligence & Machine Learning and Data Analytics.

M3 : Imbibing the students with a deep understanding of professional ethics and high integrity to serve the Nation.

M4 : Providing an environment to the students for their growth both as individuals and as globally competent Computer Science professionals with encouragement for innovation & start-up culture.

Program Educational Objectives (PEOs)

PEO 1 : Graduate will work in the area of Application Software Development, Artificial Intelligence & Machine Learning, Data Analytics, and Internet of Things.

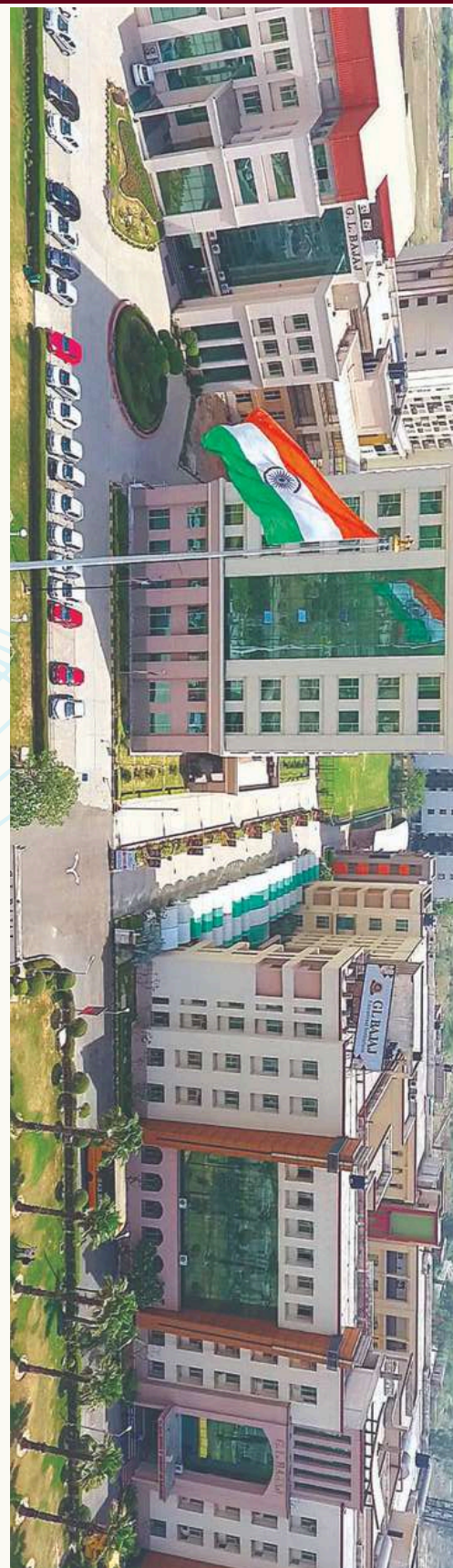
PEO 2 : Graduates will become successful software professionals with leadership and managerial quality in the modern software industry based on their strong skills on theoretical and practical foundation.

PEO 3 : Graduate will exhibit professional ethics and moral value with capability of working as an individual and as a team to contribute towards the need of industry and society

Program Specific Outcomes (PSOs)

PSO1 : Students will be able to use problem solving skills to develop efficient algorithmic solutions.

PSO2 : Students will be able to develop solutions for a given problem in the area of artificial intelligence, data analytics, Computer Vision and IOT through a conducive environment and infrastructure.





Visionary Voice



Dr. Preeti Bajaj
Director, GLBITM

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



Message from the Director

Dear Students, Faculty, and Well-Wishers,
Welcome to GL Bajaj Institute of Technology and Management — where academic excellence meets holistic development. We are committed to shaping future technocrats and leaders through quality education, character building, and innovative thinking. With state-of-the-art infrastructure, dedicated faculty, and a focus on both curriculum and co-curricular activities, GL Bajaj provides an ideal environment for learning and growth. Our efforts are geared toward creating professionals who are confident, competent, and ready for the global stage.

We continually evolve with emerging trends in technology and education, ensuring our students remain ahead of the curve. Regular seminars, workshops, and faculty development programs help us maintain a dynamic academic ecosystem.

Join us in our journey toward knowledge, innovation, and excellence.

Warm regards,

Dr. Preeti Bajaj
Director, GLBITM



From the HOD's Desk Computer Science

Warm greetings to all of you!

It gives me immense pleasure to present this edition of the Department of Computer Science & Engineering's newsletter. This platform not only celebrates the accomplishments of our department but also serves as a bridge that connects us all—students, faculty, alumni, and stakeholders—with a shared sense of pride and progress.

In today's fast-paced, technology-driven world, where the boundaries between nations and disciplines are dissolving rapidly, it becomes essential to stay ahead with knowledge, skill, and adaptability. With globalization and competition shaping our future, our department strives to keep pace with emerging trends in technology, science, and education.

Let us continue this journey together with curiosity in our minds and courage in our hearts.

Warm regards,

Dr. Sansar Singh Chauhan
Head of the Department
Computer Science & Engineering



**Dr. Sansar Singh
Chauhan**
Head of the
Department
Computer Science &
Engineering

*"It's all about the
mindset and hard
work you put in."*





Editorial Crew

Message from the Editorial Board Coordinator

It gives me immense pleasure to present the monthly Edition of the much-awaited CSE Department Newsletter. This newsletter serves as a platform to highlight the academic achievements, innovative initiatives, research contributions, and vibrant activities of our department.

With each edition, we aim to capture the spirit of progress and showcase the dedication of our faculty, students, and staff.



I extend my sincere gratitude to all contributors, editors, and coordinators who have worked diligently to bring this newsletter to life. I also encourage students and faculty to actively participate in future editions by sharing their achievements, ideas, and creative inputs.

Together, let us continue to build a culture of learning, innovation, and excellence.

Mr. Shikhar Pandey
Editorial Board Coordinator
Department of Computer Science & Engineering
GL Bajaj Institute of Technology and Management



Editorial Crew



SHUBHANJALI



PRIYA GOEL



NAINSI MOTIYAN



REHAN SHAMIM



MAHEK SINGHAL



SHRUTI DIXIT



VAIBHAV



Student Achievement

Innovation Meets Healthcare at MEDHA 2025 Hackathon

“Winners For Best Prototype”

The Department of Computer Science and Engineering at GL Bajaj Institute of Technology and Management takes immense pride in acknowledging the exceptional achievement of its students for securing the Best Prototype Award at MEDHA 2025 — a 36-hour Medical Device Hackathon organized by IEEE in association with IIT Bombay and BETiC (Biomedical Engineering and Technology Incubation Center).



Team RouteGuard Innovators won the Best Commercial Project Award at MEDHA 2025, organized by GL Bajaj Institute of Technology and Management and IEEE Student Branch in collaboration with BETIC, IIT Bombay. The team also received a cash prize of ₹5000. They built a solar-powered infant incubator for rural healthcare, equipped with real-time vitals monitoring, temperature and humidity control logic, UV-C sterilization, and a web dashboard for remote tracking. The prototype was fully showcased within 24 hours, reflecting innovation, teamwork, and efficient execution from idea to working model.

Mentor: *Dr. Priyanka Datta*

Team Members:

- *Aayush Kumar Shrivastav*
- *Nikunj Rawat*
- *Vidwan Kochhar*
- *Shreya Choubey*
- *Nishant Chaudhary*
- *Suraj Kr. Mishra*



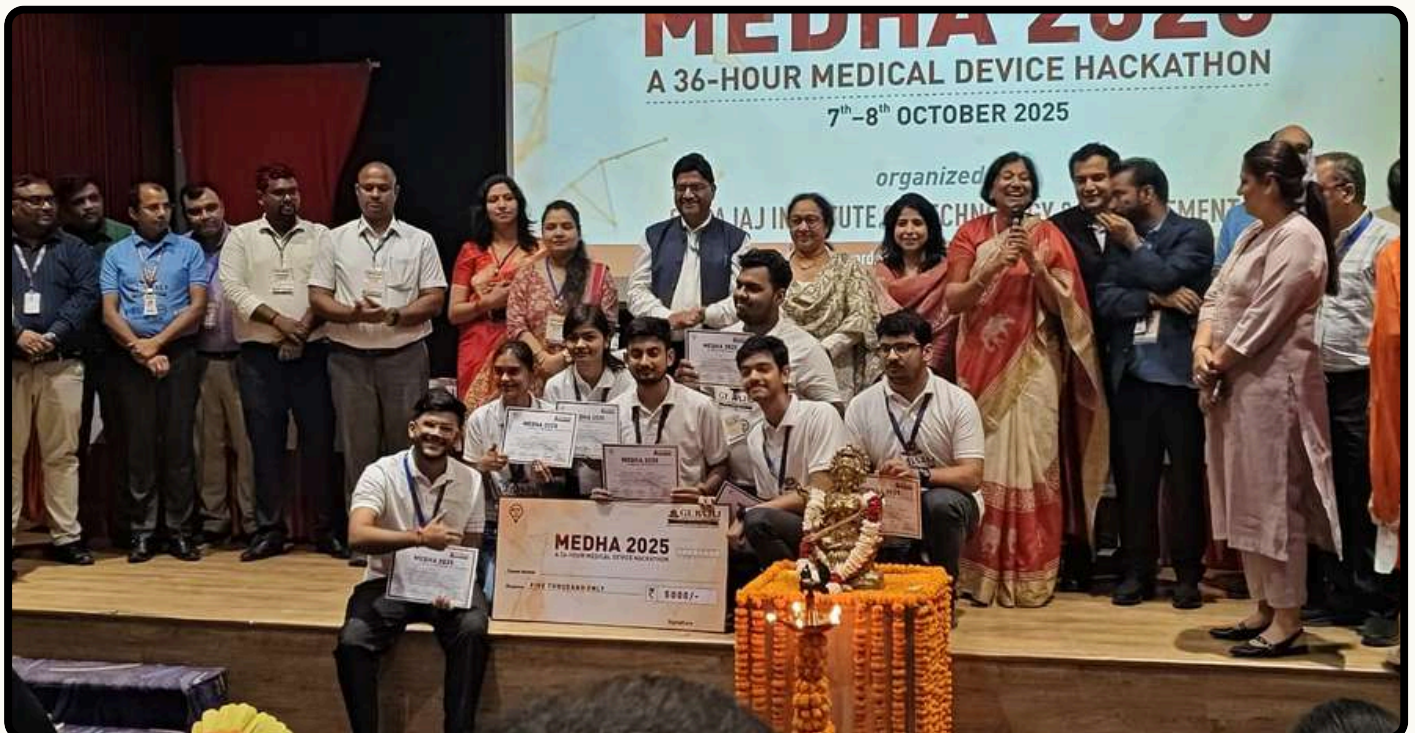
Student Achievement

Innovation Meets Healthcare at MEDHA 2025 Hackathon

This outstanding accomplishment stands as a reflection of the team's technical brilliance, creative problem-solving, and collaborative spirit. By combining healthcare and computer science, the students demonstrated how emerging technologies can redefine traditional boundaries and enhance human capability.



Their achievement at MEDHA 2025 symbolizes the institute's commitment to nurturing innovators who not only excel in academics but also contribute meaningfully to society through technology-driven solutions that truly make a difference.





Student Achievement

Hindi Slogan Writing Competition

Secured Runner-Up Position

The Department takes immense pride in appreciating the prestigious achievement of **Srishti Sharma** from 2nd year Cse department for achieving the Second Prize in the **Hindi Slogan Writing Competition** organized by the **CodeSpace Club** of the **IT Department**.

Her creative slogan was widely praised for its originality, linguistic finesse, and the depth of its message, which beautifully captured the purpose of the event to celebrate the beauty and versatility of the Hindi language in modern expression.

Srishti's remarkable accomplishment reflects her thoughtful perspective, creative intellect, and passion for meaningful communication.

Through her slogan, she demonstrated how language can be both powerful and artistic, carrying a message that connects with people across backgrounds. Her ability to blend imagination with emotion and clarity of thought truly stood out among the participants.

This achievement not only highlights her personal talent but also underlines the importance of cultural and linguistic expression in today's digital age.

The department commends her sincerity, enthusiasm, and commitment, and hopes her success continues to inspire her peers to explore their creative potential with confidence and pride.





Student Achievement

Hack With Uttar Pradesh 2025->



The Department of **Computer Science and Engineering** proudly congratulates our talented students for earning a direct entry into Round 2 of **Hack With Uttar Pradesh 2025 (HWUP)** after being Finalists at Hack With India last month. This milestone is a testament to their outstanding technical expertise, innovative mindset, and collaborative spirit.

The team demonstrated remarkable creativity, problem solving ability, and perseverance throughout the competition. HWUP is a prestigious 30-hour offline Agentic AI Hackathon, hosted at Chandigarh University, Lucknow Campus, and organized by IEDC Chandigarh University.

The event serves as a platform for some of the most brilliant minds to design impactful AI-driven solutions for real-world challenges.

The department commends the team for their dedication, ingenuity, and relentless pursuit of excellence. We extend our best wishes to them for the upcoming rounds and look forward to witnessing even greater achievements in the future.

Team Members:

Anurag Srivastava - Team leader(CSH),

Satyam Jaiswal(Team Member)



Student Achievements

Placement Highlights->



Ashutosh Pandey, a talented student of B.Tech, Batch 2026 at GL Bajaj Institute of Technology and Management (GLBITM), has secured an excellent placement opportunity at Kickdrum Technologies.

Reflecting on his journey, Ashutosh shared, “My placement success is a true reflection of the guidance and support.

Jyotsna Gaver, a bright B.Tech (CSE) student from the Batch of 2024 at GL Bajaj Institute of Technology and Management (GLBITM), has secured a prestigious placement at Visa with a dream package of Rs. 35.4 LPA.

She shares, “The guidance, mentorship, and training at GL Bajaj played a key role in shaping my journey and preparing me for this achievement. I’m truly grateful for the constant support and opportunities provided by the institute.”





Student Achievements

Placement Highlights->

Congratulations
FOR BEING SELECTED AT

 **Progress**[®] |  **12 Lac** Per Annum
*CTC applicable on FTE



Divyam Verma
CSE



Sanat Kumar Verma
CSE



Shubham Sharma
CSE

Divyam Verma, Sanat Kumar Verma, and Shubham Sharma from B.Tech CSE, Batch 2026 of GL Bajaj Institute of Technology and Management, on being placed at Progress through the campus recruitment drive!

They share, “The continuous support, guidance, and training sessions at GL Bajaj helped us gain confidence, enhance our skills, and achieve this milestone. The learning environment and mentorship at the institute truly shaped our professional journey.”



Student Achievements

Placement Highlights->



Suhani Gaur, Rini Dabral, and Nandini Sharma, talented students of B.Tech (CSE, IT), Batch 2025 at GL Bajaj Institute of Technology and Management (GLBITM), have secured incredible placements at NCR Atleos through the campus recruitment drive!

They shared,

“Our placement journey truly mirrors the support of GL Bajaj. From intensive placement training to expert technical guidance and insightful workshops, each experience prepared us to step confidently into the professional world. We are deeply grateful for the mentorship and opportunities that have shaped our success.”



Student Achievements

Placement Highlights->

Congratulations

FOR BEING SELECTED AT

LUMEN

Rs. **7** Lac
Per Annum



Harshit Chauhan
CSE



Naveen Gupta
CSE

Harshit Chauhan and Naveen Gupta from B.Tech CSE, Batch 2026 of GL Bajaj Institute of Technology and Management, on being placed at Lumen Technologies through the campus recruitment drive!

They share, “The constant guidance, mentorship, and training at GL Bajaj helped us strengthen our skills and build the confidence to excel in the placement process.



Student Achievements

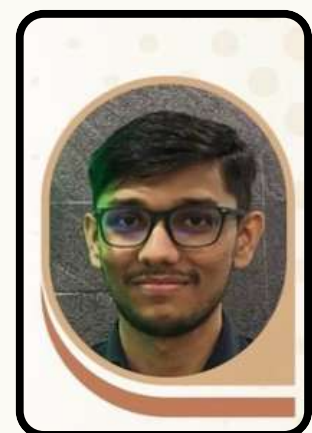
Placement Highlights->



Jay Gautam from B.Tech CSE, Batch 2026 of GL Bajaj Institute of Technology and Management, for securing a placement at Sagility through the campus recruitment drive!
He shares, “The guidance, training, and constant support from GL Bajaj helped me build confidence and achieve this placement success.”



Akhil Chauhan from B.Tech CSE, Batch 2026 of GL Bajaj Institute of Technology and Management, on being placed at Sagility through the campus recruitment drive!
Akhil shares, “My journey at GL Bajaj has been full of learning and encouragement. The constant support from mentors and the placement team played a big role in achieving this success.”

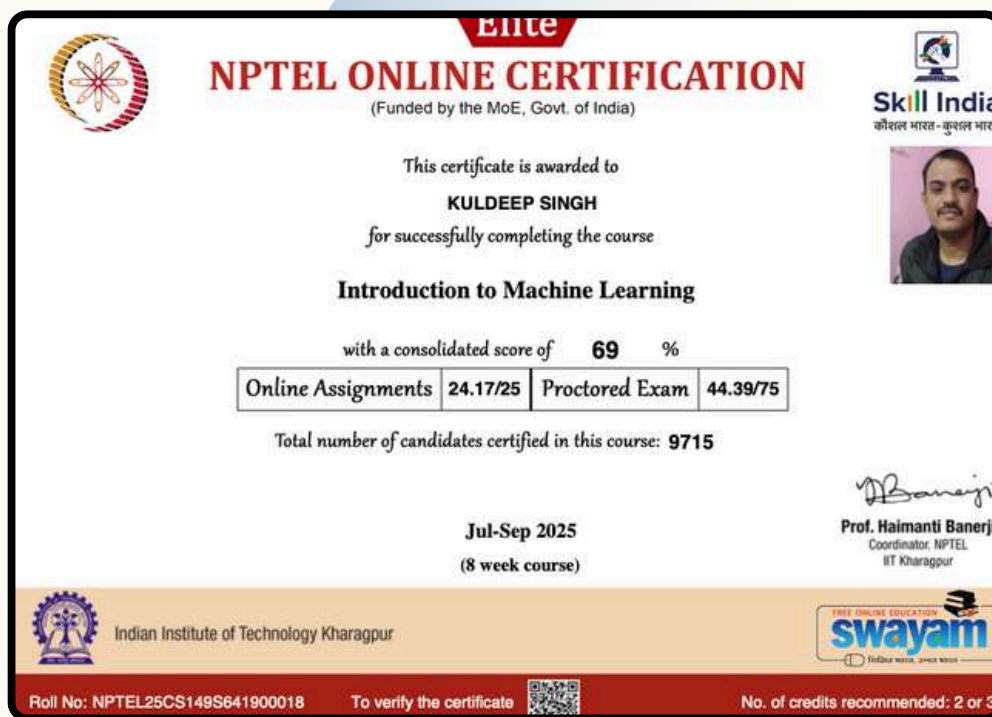


Devansh Tanwar from B.Tech CSE, Batch 2026 of GL Bajaj Institute of Technology and Management, on being placed at Sagility through the campus recruitment drive!
Devansh shares, “The guidance and motivation from our faculty and placement mentors at GL Bajaj helped me enhance my skills and achieve this wonderful opportunity.”



NPTEL-Certification

Mr. Kuldeep Singh Earns Elite Certification from NPTEL in Machine Learning->



The Department proudly congratulates **Mr. Kuldeep Singh** for earning the prestigious Elite Certificate in the NPTEL course “Introduction to Machine Learning”, conducted by the Indian Institute of Technology, Kharagpur, during the July–September 2025 session.

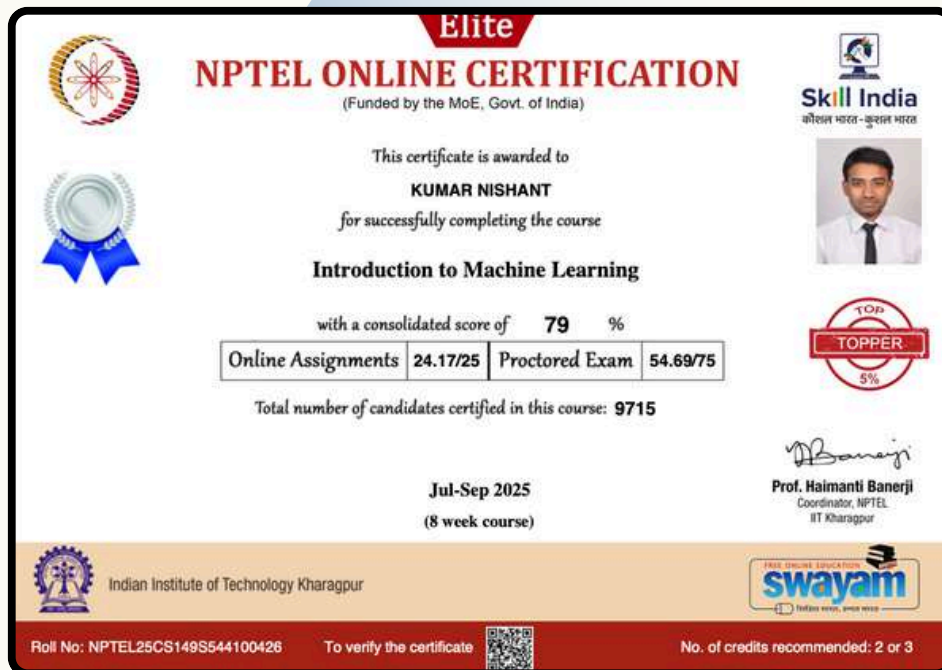
Key Highlights:

1. Successfully completed the 8-week NPTEL course on “Introduction to Machine Learning”, demonstrating a clear understanding of foundational ML concepts and their real-world applications.
2. Developed strong analytical skills by exploring topics such as supervised learning, unsupervised learning, data preprocessing, and model evaluation, strengthening his technical base.
3. His ability to apply theoretical knowledge to practical tasks reflects a balanced command of both conceptual clarity and implementation skills.
4. This certification highlights his dedication to professional growth and enthusiasm for emerging technologies, inspiring peers to pursue similar academic excellence.



NPTEL-Certification

Mr.Kumar Nishant Secures Top 5% Rank with Elite Silver in NPTEL Machine Learning Course->



The Department of Computer Science and Engineering extends heartfelt congratulations to **Mr. Kumar Nishant** for securing an Elite Silver Certificate and ranking among the Top 5% performers nationwide in the NPTEL course “Introduction to Machine Learning”, organized by IIT Kharagpur during the July–September 2025 session.

Key Highlights:

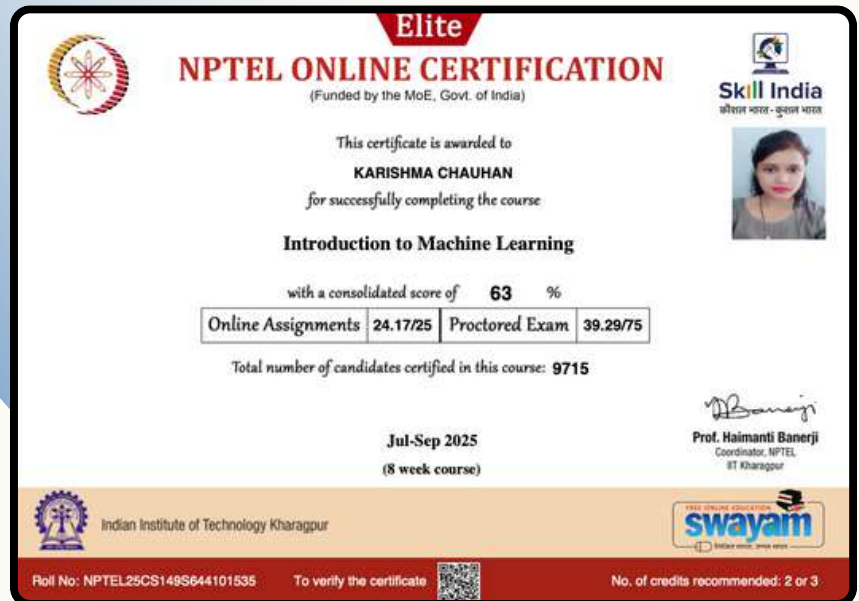
1. Earned the Elite Silver Certification with an impressive 79% score, positioning himself among the Top 5% performers nationwide in the NPTEL Machine Learning course.
2. Showcased deep knowledge in data modeling, algorithm design, and predictive analysis, mastering the core principles of machine learning.
3. Excelled in both online assignments and proctored exams, reflecting consistent effort, critical thinking, and a results-driven learning approach.
4. His remarkable achievement reflects a blend of academic excellence, technical proficiency, and innovation, setting a strong example for fellow faculty and students alike.



NPTEL-Certification

Ms. Karishma Receives Elite Certificate from NPTEL for Outstanding Technical Proficiency->

The Department takes immense pride in appreciating the remarkable achievement of **Ms. Karishma Chauhan**, who has successfully qualified the NPTEL Certification Exam in **Introduction to Machine Learning** conducted during the July–September 2025 session.



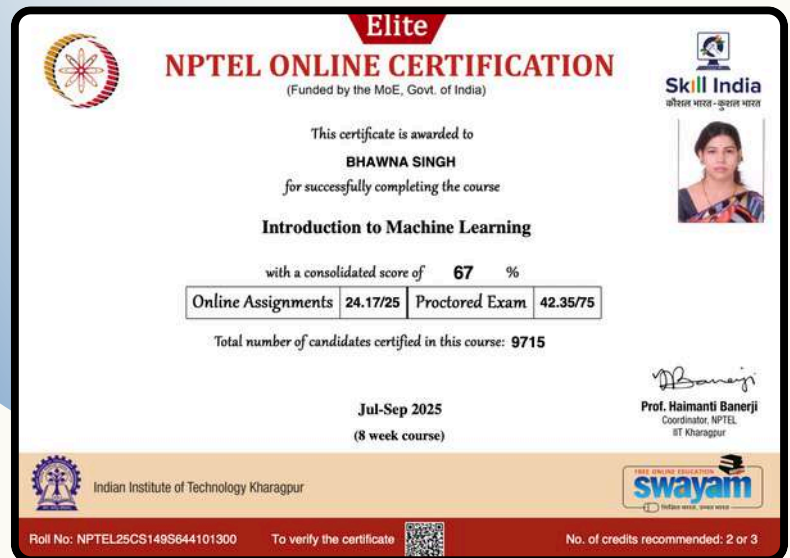
- For this outstanding performance, Ms. Karishma has been awarded the prestigious Elite Certificate, which stands as a testament to advanced technical proficiency and strong conceptual clarity.
- Through this certification, she has showcased an in-depth understanding of key areas including Artificial Intelligence and Deep Learning.
- These skills not only highlight subject mastery but also reveal the ability to apply theoretical knowledge to practical problem-solving, a quality that is highly valued in both academic and professional spheres.
- Achieving recognition at a national level through a competitive and rigorous program such as NPTEL is commendable and reflects the commitment towards continuous learning and growth.



NPTEL-Certification

Ms. Bhawna Singh Receives Elite Certificate from NPTEL for Outstanding Technical Proficiency->

The Department takes immense pride in appreciating the remarkable achievement of **Ms. Bhawna Singh**, who has successfully qualified the NPTEL Certification Exam in **Introduction to Machine Learning** conducted during the July–September 2025 session.



- For this outstanding performance, Ms. Bhawna has been awarded the prestigious Elite Certificate, which stands as a testament to advanced technical proficiency and strong conceptual clarity.
- Through this certification, she has showcased an in-depth understanding of key areas including Artificial Intelligence and Deep Learning.
- These skills not only highlight subject mastery but also reveal the ability to apply theoretical knowledge to practical problem-solving, a quality that is highly valued in both academic and professional spheres.
- Achieving recognition at a national level through a competitive and rigorous program such as NPTEL is commendable and reflects the commitment towards continuous learning and growth.



Faculty Recognition

Dr. Nikhil Sharma's Hybrid Blockchain-AI Framework Sets New Benchmark in Medical Data Security.

Cluster Computing (2025) 28:1029
<https://doi.org/10.1007/s10586-025-05706-1>



Blockchain-based framework for secure medical data sharing and disease diagnosis using optimized deep belief networks

Nikhil Sharma^{1,2} · Prashant Giridhar Shambharkar¹

Received: 8 March 2025 / Revised: 30 June 2025 / Accepted: 3 August 2025
© The Author(s), under exclusive licence to Springer Science+Business Media, LLC, part of Springer Nature 2025

Dr. Nikhil Sharma, Assistant Professor, Department of Computer Science and Engineering at G. L. Bajaj Institute of Technology and Management, Greater Noida, has achieved a significant research milestone with the 7th Journal publication of his paper titled “Blockchain-Based Framework for Secure Medical Data Sharing and Disease Diagnosis Using Optimized Deep Belief Networks” in the prestigious Q1 Springer journal, Cluster Computing (2025) with Impact Factor of 4.1.

The research introduces an innovative hybrid healthcare framework that combines blockchain technology and deep learning to ensure both data security and accurate early detection of epilepsy. The proposed model integrates cryptographic optimization techniques, Elliptic Curve Cryptography (ECC), SHA3-512 hashing, and Ethereum blockchain with IPFS for secure, decentralized medical data management. For disease diagnosis, the framework employs an Optimized Deep Belief Neural Network (ODBNN) fine-tuned with a Simulated Annealing–Gradient-Based Optimizer (SA-GBO) to detect epileptic seizures from EEG signals.

The system demonstrated remarkable accuracy of 99.25% and 99.39% on benchmark datasets, outperforming existing models in precision and reliability.

This research presents a powerful step toward secure, scalable, and intelligent smart healthcare systems, emphasizing data privacy, trust, and early disease prediction. Dr. Sharma's contribution highlights the growing role of AI and blockchain integration in revolutionizing medical data handling and clinical diagnostics.



Faculty Recognition

Faculty Participation in AICTE-Recognized FDP on Research Methodology

Dr. Nikhil Sharma, Assistant Professor, Department of Computer Science and Engineering at G. L. Bajaj Institute of Technology and Management, Greater Noida, has achieved a significant research milestone with the 7th Journal publication of his paper titled “Blockchain-Based Framework for Secure Medical Data Sharing and Disease Diagnosis Using Optimized Deep Belief Networks” in the prestigious Q1 Springer journal, Cluster Computing (2025) with Impact Factor of 4.1. The research introduces an innovative hybrid healthcare framework that combines blockchain technology and deep learning to ensure both data security and accurate early detection of epilepsy.



The proposed model integrates cryptographic optimization techniques, Elliptic Curve Cryptography (ECC), SHA3-512 hashing, and Ethereum blockchain with IPFS for secure, decentralized medical data management. For disease diagnosis, the framework employs an Optimized Deep Belief Neural Network (ODBNN) fine-tuned with a Simulated Annealing–Gradient-Based Optimizer (SA-GBO) to detect epileptic seizures from EEG signals.





Faculty Recognition

Certificate of Appreciation at INCSTIC-2025->

The Department of Computer Science and Engineering proudly congratulates **Mr. Shikhar Prateek Pandey** for receiving a Certificate of Appreciation as a valuable reviewer at the 1st International Conference on Smart Technologies and Intelligent Computing (INCSTIC-2025), organized by Geeta University, Panipat (Delhi NCR), in association with CRC Press (Taylor & Francis Group) and indexed by Scopus.



The conference, held on 17th–18th October 2025, focused on “Shaping Tomorrow: Harnessing Smart Technologies and Intelligent Computing for a Sustainable Future.”

Mr. Pandey’s contribution as a reviewer reflects his ommitment to academic excellence and active participation in global research initiatives.

The department extends heartfelt congratulations and best wishes for his continued success and scholarly contributions.



Faculty Development Program Participation

Faculty Development Program Participation on Quantum Computing->



The Department of Computer Science and Engineering extends hearty congratulations to **Mr. Shikhar Prateek Pandey** for successfully participating in a Five-Day Faculty Development Program (FDP) on “Quantum Computing & Quantum Algorithm for Computer Engineers” organized by the School of Computing, SRM Institute of Science and Technology, Tiruchirappalli, from October 13–17, 2025.

The FDP provided in-depth insights into emerging trends in Quantum Computing, its underlying quantum algorithms, and the applications of quantum principles in next-generation computational systems. The sessions were led by experts and researchers in the field, aiming to enhance faculty expertise in advanced computing paradigms.

Mr. Pandey’s active participation reflects his continuous pursuit of knowledge and dedication toward integrating cutting-edge technologies into teaching and research practices.



Student Achievements

CSE Department Triumphs in “Tandav” Inter-Department Folk Dance Competition

The CSE Department achieved a remarkable feat by winning First Place in the “Tandav” Inter-Department Folk Dance Competition, organized by the Navrang Club during the college’s annual Arts and Cultural Fest. The event aimed to celebrate India’s diverse cultural heritage and provide students with a platform to express creativity, teamwork, and artistic excellence.



Our dynamic dance team, “Desi Beats,” presented a mesmerizing Rajasthani folk dance performance that captured the vibrant traditions and festive energy of Rajasthan. Their powerful expressions, synchronized choreography, and colorful costumes won the admiration of both judges and spectators.

The team comprised:

- Paridhi
- Shruti Dixit
- Shambhavi Tiwari
- Anushka Varshney
- Sakshi
- Namrata



Student Achievements

Weeks of dedicated rehearsals and coordination led to a stunning performance that reflected the team's unity, discipline, and enthusiasm. The competition also helped participants develop essential life skills such as teamwork, time management, confidence, and cultural awareness. This proud moment brought immense joy to the CSE Department.



The triumph of Team Desi Beats symbolizes how creativity and collaboration can lead to outstanding success. Their performance added vibrancy to the cultural fest and served as an inspiration for others to participate actively in co-curricular activities. The department extends heartfelt congratulations to the team for bringing laurels and upholding the spirit of unity, culture, and innovation that defines CSE.





Events

Diwali Celebration->

The Computer Science and Engineering Department of G. L. Bajaj Institute of Technology and Management celebrated Diwali with great joy and enthusiasm. The celebration was exclusively organized for the faculty members, who came together to share festive moments, exchange greetings, and celebrate the spirit of togetherness.





Events

Nukkad Natak - “Chuppi Todo”

The Department of Computer Science and Engineering at G.L. Bajaj Institute of Technology and Management, Greater Noida, organized a powerful and thought-provoking Nukkad Natak titled “Utho Draupadi, Shastr Uthalo”. The street play aimed to shed light on the rising cases of crimes against women and to awaken collective consciousness toward gender respect and justice. Through expressive performances, emotionally charged dialogues, and impactful symbolism, the natak highlighted how society’s silence often empowers injustice. The performance began with a stirring chorus as all actors entered to the beats of dhol and resonating slogans — “Naari ka sammaan, desh ki pehchaan!” and “Chuppi todo, anyay roko!” The audience was immediately drawn into the intensity of the message.



Through expressive acting, strong dialogues, and powerful narration, the play vividly portrayed the struggles faced by women and the indifference of a society that often chooses silence. The words echoed deeply, urging the audience was left to reflect, question, and act. Each scene carried raw emotion and truth, leaving a lasting impact on everyone present. “Chuppi Todho” beautifully merged art with awareness, inspiring viewers to raise their voices against injustice and reinforcing the belief that real change begins when silence is broken.





Events

Nukkad Natak - “Chuppi Todo”

The first act depicted a modern-day crime — a chilling portrayal of a young woman’s plea for justice amid societal indifference and political arrogance. The dialogues — “Yeh sheher meri jagir hai, yahan kanoon bikta hai” — mirrored the grim reality of power misuse and the vulnerability of victims in a corrupt system. The second act reflected media and public reactions — temporary outrage, candle marches, and the rapid fading of empathy once headlines changed. It made the audience introspect how collective silence becomes an accomplice to injustice. The third scene transitioned to a dramatic reenactment of the Mahabharata’s “Cheerharan” episode, seamlessly connecting mythological injustice to modern times. Draupadi’s powerful monologue — questioning Bhishma, Arjun, and the assembly’s silence — echoed across generations.



The fusion of classical and contemporary elements made the play both relatable and timeless. The scene culminated with Krishna’s divine intervention, symbolizing that justice comes only when faith meets courage.

In the concluding act, the Sutradhar’s words — “Utho Draupadi, shastr uthalo, ab Govind na aayenge” — resonated deeply, urging women to rise in strength rather than wait for saviors. The performers concluded with collective chants demanding societal reform, leaving the audience visibly moved and thoughtful.





Events

Nukkad Natak - “Chuppi Todo”

The play's narrative, direction, and delivery reflected the dedication of the students and faculty who conceptualized and executed it with passion and precision. Each dialogue was meticulously written in Hinglish, striking a perfect balance between emotional depth and realism. The integration of rhythm, slogans, and traditional instruments added authenticity and vibrancy to the street-play form.

The Nukkad Natak concluded with a powerful message — urging everyone to rise against injustice and break the silence that fuels it. Through intense performances and emotional depth, the act inspired awareness, empathy, and strength, reminding all that true change begins when society refuses to stay silent and chooses to speak with courage. It served as a wake-up call to stand united against social evils and protect the dignity of women. The performance left the audience deeply moved, echoing the belief that “awareness begins where silence ends.”





Alumni Meet

Alumni Meet 2025 – A Heartwarming Reunion->

The Department of Computer Science and Engineering, GL Bajaj Institute of Technology and Management, proudly hosted a memorable Alumni Meet 2025, graced by our respected HOD Sir and enthusiastic students. The event beautifully blended nostalgia, inspiration, and knowledge sharing.

We were honoured to welcome our distinguished alumni:

Shreya Gupta (Batch 2018–2022, Roll No. 1819210255), currently working at Accenture as a Cloud Engineer

Komal Priya (Batch 2018–2022, Roll No. 1819210147), currently working at Ericsson as an Automation Engineer.

Both alumni shared their valuable experiences from the corporate world, offered guidance to budding engineers, and inspired everyone with their success stories. Their words encouraged students to stay focused, dream big, and work passionately toward their goals.

The department extends heartfelt gratitude to HOD Sir, our alumni, and all participants for making this event a grand success.





KNOWLEDGE TRANSFER SESSION

Digitalizing Agriculture: Empowering Farmers Through Technology and Governance-Book Chapter(Scopus)->

Dr. Pankaj Kumar from the department of Computer Science & Engineering delivered a Knowledge Transfer (KT) session on titled “Digitalizing Agriculture: Empowering Farmers Through Technology and Governance”.

This research focuses on Digitalization Of agriculture. Digitalization penetrates all sectors including agriculture to ensure safe link between technology and governance towards farmers' improvement and farming practices transformation. Governments make precision farming, real-time monitoring, and supply chain transparency with the help of IoT, AI, drones, and the blockchain. The E-agricultural platforms ensure that farmers are sold directly from the market, with the option of getting quality financial services and advice from professional experts. Here, governance has an important function of providing subsidies for the growth of digital tools, developing accessibility to the Internet





KNOWLEDGE TRANSFER SESSION

An Adaptive Generative 3D VNet Model for Enhanced Monkeypox Lesion Classification Using Deep Learning and Augmented Image Fusion-Journal Paper [SCIE])->

An insightful and highly informative session was delivered by **Mr. Praveen Rai**, who shared his deep expertise on Adaptive Generative 3D VNet Models for medical image classification and the use of AI in healthcare research.

The major objective of the proposed model is to mitigate the challenges of limited labeled data by generating synthetic augmented images and combining them with real images for robust classification. The two major components of the proposed system are the Adaptive Generative Network and the 3D VNet.

Additional training models are generated by the adaptive generative network through augmentation approaches including cropping, rotation, and flipping, thereby increasing the diversity of the dataset. The 3D VNet processes these images in a volumetric manner to capture spatial relationships within the lesions, improving classification accuracy. The fusion layer then adaptively combines the predictions from the real and augmented data to optimize the overall effectiveness of the model.

Key performance metrics including accuracy, precision, sensitivity, specificity, Jaccard Index, Hausdorff distance, and Dice Similarity Coefficient are used to evaluate the model's performance.





KNOWLEDGE TRANSFER SESSION

Graph-theoretic and geometric methods for social network influence analysis- Journal Paper [Scopus]->

Dr. Payal Garg from the Department of Computer Science & Engineering delivered a Knowledge Transfer (KT) session on “Graph-theoretic and geometric methods for social network influence analysis,”. The results of the research on hybrid social network influence analysis have yielded significant advancements in understanding and modeling influence dynamics within complex networks. This hybrid model enables the identification of key influencers, detection of bottlenecks, and recognition of weakly connected communities, which traditional graph-based approaches often overlook. Through real-world data analysis, the framework demonstrated improved precision in ranking influential nodes and predicting information spread..

AI-augmented cryptanalysis using combinatorics and reinforcement learning- Journal Paper [Scopus Index]

Dr. Payal Garg from Department of CSE delivered a Knowledge Transfer session on “AI-augmented cryptanalysis using combinatorics and reinforcement learning”. The results of the research on AI-augmented cryptanalysis have led to significant progress in the domain of cybersecurity and intelligent encryption analysis.

By combining reinforcement learning with combinatorial key-search methods, this hybrid framework introduces adaptability and intelligence into traditional cryptanalysis. Experimental results show a 14–19% improvement in key-recovery success rates and nearly twofold speed gains compared to standard methods. These outcomes demonstrate how AI can effectively prune vast key spaces, identify hidden cipher structures, and optimize the search process in real time. Beyond efficiency, the approach showcases the potential of machine learning to transform classical cryptographic analysis into an automated, data-driven discipline. This innovation not only strengthens the field of cryptanalysis but also contributes to the development of more secure encryption systems by identifying vulnerabilities faster and more intelligently.





KNOWLEDGE TRANSFER SESSION

Smart Healthcare Systems with IoT and Blockchain-Book Chapter [Scopus]->

Dr. Vrinda Sachdeva from the Department of Computer Science and Engineering conducted a Knowledge Transfer (KT) session on “Smart Healthcare Systems with IoT and Blockchain”, emphasizing how the implementation of Internet of Things (IoT) technology has brought a significant transformation in modern healthcare systems.

During the session, Dr. Sachdeva highlighted how IoT devices have enhanced the efficiency, automation, and convenience of healthcare services. She explained that various IoT-enabled devices collect large volumes of data and transmit them to the cloud, where the information is processed and made accessible to healthcare professionals for timely decision-making. To address latency issues in cloud-sensor architectures, she discussed the use of fog nodes at the edge of sensor networks for faster data processing.

Investigating GPU-Accelerated Deep Learning Architectures for Water Level Prediction Mode->

Dr. Vrinda Sachdeva from the Department of Computer Science and Engineering conducted a Knowledge Transfer (KT) session on “Investigating GPU-Accelerated Deep Learning Architectures for Water Level Prediction Model”, focusing on the development of accurate and efficient models for water level forecasting.

During the session, Dr. Sachdeva emphasized the growing importance of precise water level prediction for effective water resource management and promoting sustainability initiatives. She highlighted how the integration of Graphics Processing Units (GPUs) with deep learning architectures can significantly enhance computational efficiency, enabling faster and more reliable forecasting outcomes.





Departmental Update Welcoming New Faculties

Our New Faculty Members



Dr. Kanchan Naithani
Assistant Professor
NLP, AI, Text Analysis,
Sentiment Analysis



Abhijeet Gupta
Assistant Professor
Machine Learning



Vineet Kumar
Assistant Professor
Mathematics



Bytes & Breakthroughs

OpenAI introduces “Omni Memories” – persistent AI memory for users

- OpenAI rolled out a feature allowing ChatGPT to remember user preferences and past context across conversations.
- Designed to make AI more personal and adaptive over long-term usage.
- Raises new discussions on AI privacy, consent, and data control for consumers.

Google launches Gemini 3 Ultra with Multi-Agent Reasoning

- Latest flagship AI model enabling collaborative AI agents that can divide tasks and self-verify each other's output.
- Strong upgrades in STEM problem-solving, research assistance, and software engineering tasks.
- A step toward practical “AI Teams” that could handle projects end-to-end.

IIT-Madras & IISc collaborate on Indigenous Quantum Processor

- Joint program to build a 50+ qubit Indian quantum chip by 2027.
- Focus on quantum materials, cryogenic control, and scalable qubit systems.
- Marks one of India’s most significant pushes into quantum hardware independence.

Space-based Internet breakthrough (ESA Project Iris)

- European Space Agency completed successful tests of satellite-to-aircraft internet for commercial flights.
- Promises low-latency in-flight connectivity for streaming, VoIP, and real-time navigation.
- Expected roll-out in European aviation by 2027.

Cybersecurity: “Micro-Fraud” Attacks on the Rise

- A new trend where attackers steal very small recurring digital payments (₹1–₹15) from large user bases to avoid detection.
- AI-enhanced anomaly detection systems are being tested to catch these patterns.
- Students are advised to monitor UPI auto-deductions and app permissions.

AI designs a “first-in-class antibiotic” for drug-resistant infections

- Researchers used generative AI to create a new molecule effective against superbugs.
- Shortened discovery time from 5–7 years to under 18 months.
- Could reshape pharmaceutical R&D using AI-driven molecular design.

AI + Neurology: Brain-to-Text hits 140 WPM accuracy

- A new brain-computer interface (BCI) model can convert neural signals to text at near-human typing speed.
- Helps paralysed patients regain communication ability.
- Significant step toward practical human-AI neural interfaces.

www.glbitm.org



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