

“Exploring AI is exploring the
next frontier of human creativity.”



#October 2025
EDITION

PRADYUMAN

NEWSLETTER | COMPUTER SCIENCE ENGINEERING - AI



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ABOUT THE INSTITUTE



GL Bajaj Institute of Technology and Management, Greater Noida, is a premier institution affiliated with Dr. A.P.J. Abdul Kalam Technical University.

Renowned for its practical learning, innovation, and research, it offers modern infrastructure, expert faculty, and strong industry ties, ensuring excellent placements and holistic student development for career and societal contributions.





Message from Director, GLBITM

Dr. Preeti Bajaj

Welcome to GL Bajaj, a place where academics and co-curricular activities come together to shape future technocrats and business leaders. Guided by our vision, we aspire to be a premier hub for teaching, research, and innovation in Engineering and Technology, driven by our steadfast commitment to quality education and training.

At GL Bajaj, we nurture strength of character, confidence, technical excellence, and leadership in our students. This is made possible through our dedicated faculty, a world-class library, cutting-edge laboratories, and modern teaching methodologies that make learning dynamic, engaging, and effective. In an era of globalization and rapid technological change, we continuously evolve to equip our students with the skills and knowledge necessary to excel in an ever-competitive world.

Our strong academic track record and outstanding placement outcomes stand as proof of the diverse talents and achievements of our student community. Alongside academics, we emphasize faculty growth through development programs, seminars, workshops, and conferences, ensuring continuous progress for both students and educators.

I warmly welcome you to GL Bajaj, where your journey toward innovation, excellence, and lifelong success truly begins. Together, let us create a future filled with opportunities, growth, and achievements.



Message from Head of CSE-AI, GLBITM

Dr. Sanjeev Kumar Pippal

G.L. Bajaj Institute of Technology and Management is committed to nurturing strong ethical values such as integrity, respect, discipline, and sound decision-making in our students, fostering a lifelong journey of personal and professional growth.

At the heart of our mission lies the drive to build strong collaborations with industry, academia, and the wider community. By encouraging meaningful exchanges, we strive to bridge the gap between theory and practice, preparing our graduates to confidently embrace the challenges and opportunities of today's world.

We stand firmly by the values of excellence, inclusivity, integrity, and respect for diversity in all our initiatives. Our focus on continuous improvement and innovation motivates us to consistently exceed the expectations of our students, faculty, staff, and stakeholders.

With this unwavering commitment, we aspire to be recognized as a premier institution that produces exceptional professionals and leaders who contribute positively to society. Together, we are shaping the future of education while empowering the next generation of innovators and changemakers.

Meet the Editorial Team



Ms. Bhumika Nirmohi
Faculty Editor
Vividhata Club Coordinator



Riya
Student Editor



Vikas Kumar Jha
Student Editor



Deepika Prasad
Student Editor



PRADYUMAN

ABOUT DEPARTMENT OF CSE-AI

Vividhata Club is a Celebrating Diversity in Technology and Thought

Vividhata, the vibrant club of the CSE (AI) department, celebrates the richness of ideas, perspectives, and talents. It serves as a platform where students unite to explore the limitless possibilities of Artificial Intelligence and Computer Science.

Believing that innovation thrives through collaboration, the club organizes workshops, seminars, hackathons, and creative events that inspire learning and growth beyond boundaries.

Vividhata stands as a symbol of unity in diversity, empowering students to combine their unique strengths and shape a future where technology connects, empowers, and transforms.

LEADING VOICES

Faculty coordinator
Ms. Bhumika Nirmohi

Club President
Shivanshu Pandey

Vice President
Anant Mishra

Club Secretary
Aryan Singh



CLUB EVENTS

• *An Overview*

Shuruwat-E-Samman

- CLUB ORIENTATION

- On 6th October 2025, the Vividhata Club at GL Bajaj Institute of Technology and Management hosted the *Shuruwat-E-Samman* (Club Orientation) — a grand celebration *marking the beginning of a new tenure* filled with creativity, collaboration, and innovation.



- The event commenced with the *auspicious lamp-lighting ceremony*, symbolizing knowledge and enlightenment, in the gracious *presence of the Head of Department Dr. Sanjeev Kumar Pippal and the Faculty members of department*. This was followed by an *inspiring address by HOD sir and Faculty coordinator, Ms. Bhumika Nirmohi* who shared the *club's vision, mission, and upcoming initiatives*.

- Adding vibrancy to the event, *the audience was treated to a series of cultural performances, including soulful singing and dynamic dance acts*, showcasing the immense talent and enthusiasm of the department.
- A *key highlight of the ceremony was the Badge Distribution*, where the *newly appointed club leads and core members were felicitated on stage*.
- This was *followed by the Felicitation of Academic Toppers, honoring the outstanding students of the previous tenure* for their exceptional academic performance and commitment to excellence.
- The *event concluded with a heartwarming video presentation, offering glimpses of the club's past year* — its memorable events, accomplishments, and the shared joy that defines the Vividhata community.



Snaps of the day





EXCELLENCE WALL

• *Student Achievements*



Sudhanshu Singh
[Batch 2026]



Sahil Khatri
[Batch 2026]



Harsh Rathi
[Batch 2026]

- *Three students from the Department of Computer Science and Artificial Intelligence (CSAI), Batch 2026, at GL Bajaj Institute of Technology and Management have achieved remarkable success by securing placements at Mu Sigma with an impressive offer of ₹40 Lakh CTC over four years.*
- *The selected students — Sahil Khatri, Sudhanshu Singh Baghel, and Harsh Rathi — demonstrated exceptional analytical abilities, strong problem-solving skills, and a deep understanding of data-driven decision-making, which are key strengths valued by Mu Sigma, a global leader in data analytics and business intelligence.*
- *This outstanding achievement highlights the department's commitment to nurturing industry-ready professionals equipped with both technical excellence and innovative thinking. The Department of CSE–AI congratulates the students on this well-deserved success and wishes them continued growth and learning in their professional journey.*

*Outstanding
Placements*



Rishi Varshney
[Batch 2026]



Nisha Ahmad
[Batch 2026]

- *Rishi Varshney* and *Nisha Ahmad*, students of *B.Tech (CSE-AI), Batch 2026*, at GL Bajaj Institute of Technology and Management, have been *successfully placed at Thoughtworks* with an impressive *package of ₹11.10 Lakh CTC*.
- Their achievement stands as a testament to their exceptional technical expertise, analytical mindset, and consistent pursuit of excellence. *Both students have demonstrated strong problem-solving abilities*, adaptability to modern technologies, *and the capacity to translate innovative ideas into practical solutions* — qualities that are highly valued in the evolving tech industry.

*Outstanding
Placements*

Global Achievement

-PROUD MOMENT

- **Hemant Sharma**, a student of **B.Tech (CSE-AI), Batch 2026**, from GL Bajaj Institute of Technology and Management, **has brought pride to the department and institution by securing an outstanding position in the AWS Skills to Job CTF (Capture The Flag) Competition.**
- Competing among thousands of participants across the globe, **Hemant earned a place among the Top 20 Achievers in Asia and Top 140 Achievers globally**, a remarkable testament to his technical excellence and problem-solving acumen.



Hackathon Achievement

-SKILLS SHOWCASE



A talented *team from the department of CSE-AI achieved an impressive Runner-Up position at Hackathon – The Mind Flayer, hosted by IIMT College of Engineering, Greater Noida, in collaboration with HackWithIndia and HackWithIndia IIMT.*

Led by *Mridul Singh Soam*, the team *showcased outstanding innovation, teamwork, and problem-solving abilities throughout the competition.* Their project stood out for its creativity, technical depth, and practical application, *earning praise from the judges and participants alike.*





*A team from GL Bajaj Institute of Technology and Management emerged as the 1st Prize Winners at the PitchCraft Hackathon held at Guru Tegh Bahadur Institute of Technology (GGSIPTU), Delhi. Competing against several talented teams, they **impressed the judges with their innovative solution, clear vision, and impactful presentation.** The team's success is a testament to their technical proficiency, and strong collaborative spirit.*

FACULTY CONTRIBUTION

• *An Overview*

Dr. Sanjeev Kumar Pippal
HOD- CSEAI, GLBITM



Honoured as Panel Member at Cybersecurity Conference:

- We are proud to share that *Dr. Sanjeev Kumar Pippal, Head of the Department, Computer Science and Engineering (Artificial Intelligence), was recently invited as a distinguished panel member for an insightful discussion on “Need of the Hour: Cyber Security Protocols for Public & Private Enterprises.”*
- The panel brought together eminent experts and thought leaders to deliberate on the growing *importance of robust cybersecurity frameworks in safeguarding digital infrastructures across sectors. Dr. Pippal shared his valuable insights on the evolving landscape of cyber threats, the role of AI in predictive defense mechanisms, and the significance of proactive security measures in both public and private enterprises.*
- His participation in this high-impact discussion reflects his dedication to continuous growth and forward-thinking leadership. It stands as a testament to his commitment to staying ahead of emerging technological trends and inspiring the department to move forward with innovation and purpose. The Department of CSE–AI takes immense pride in his achievement and wishes him continued success in his journey of academic and professional excellence.



Proud Moments



Mr. Kaleemur Rehman
Assistant Professor, GLBITM



- **Mr. Kaleemur Rehman** served as a *mentor at MEDHA 2025*, a Medical Device Hackathon organized by BETIC, IIT Bombay, in collaboration with GL Bajaj Institute, held on **October 7–8, 2025**. In his role as mentor, he actively guided and supported participating teams in developing innovative healthcare solutions, offering valuable insights that encouraged creativity, problem-solving, and technical excellence throughout the event.



Mr. Abhishek Singh
Assistant Professor, GLBITM



- **Mentorship at MEDHA 2025** : Mr. Abhishek Singh actively participated as a mentor in **MEDHA 2025, a Medical Device Hackathon** organized by BETIC, IIT Bombay, in collaboration with GL Bajaj Institute, held from October 7–8, 2025. As a mentor, He guided and supported participating teams in developing innovative solutions for real-world healthcare challenges, contributing valuable insights to foster creativity, problem-solving, and technical excellence throughout the event.



Mr. Mayank Kr. Mongia
Assistant Professor, GLBITM



- **Mr. Mayank Kumar Mongia** served as a *mentor at MEDHA 2025* — a *prestigious Medical Device Hackathon organized by BETIC, IIT Bombay*, in collaboration with GL Bajaj Institute of Technology and Management, held on October 7–8, 2025. In his mentoring role, he guided and supported participating teams in conceptualizing and developing innovative healthcare solutions, providing valuable insights that fostered creativity, problem-solving, and technical excellence throughout the event.



Ms. Bhumika Nirmohi
Assistant Professor, GLBITM



- **Mentorship at MEDHA 2025** : Ms. Bhumika Nirmohi actively participated as a mentor in **MEDHA 2025, a Medical Device Hackathon** organized by **BETIC, IIT Bombay, in collaboration with GL Bajaj Institute, held from October 7–8, 2025**. As a mentor, She guided and supported participating teams in developing innovative solutions for real-world healthcare challenges, contributing valuable insights to foster creativity, problem-solving, and technical excellence throughout the event.



PATENT PORTFOLIO

• *Innovation Showcase*

1. Smart vehicle accident detection and alert system using IOT and cloud Technology:

The *HOD Dr. Sanjeev Kumar Pippal and Mr. Rudra Kumar Sinha* from the CSAI Department collaborated with other faculty members and successfully filed and published a patent, reflecting their dedication to research and innovation.

Smart Vehicle Accident Detection and Alert System Using IoT and Cloud Technology is an innovative solution designed to enhance road safety through intelligent monitoring and instant emergency response. Using *IoT-enabled sensors, the system detects sudden impacts or abnormal vehicle movements and instantly transmits critical data like location, time, and severity to a cloud server. From there, automated alerts are sent to emergency services and registered contacts, ensuring rapid assistance and reducing the chances of fatal delays.*

Impact:

- **Faster Response Time:** Reduces emergency response delays from several minutes to just a few seconds.
- **Data-Driven Safety:** Cloud data helps analyze accident patterns to improve road design and preventive safety measures.
- **Scalable & Smart:** Easily integrates with smart city infrastructure and diverse vehicle systems for widespread road safety improvement.

Dr.
Sanjeev
Kumar
Pippal



Mr.
Rudra
Kumar
Sinha



2. Assisted Navigation System for Visually Impaired Individuals Using Sonar and Haptic Feedback:

Dr. Sanjeev Kumar Pippal, Head of the Computer Science and Artificial Intelligence (CSAI) Department, has successfully **filed and published a patent (Patent No. 202511069913) on 29th July 2025**. This achievement highlights his commitment to innovation, research excellence, and technological advancement, and serves as an inspiration to both faculty and students to pursue cutting-edge solutions and contribute to impactful developments in the field.

Assisted Navigation System for Visually Impaired Individuals Using Sonar and Haptic Feedback is an innovative solution aimed at improving mobility, safety, and independence for visually impaired individuals. *The system uses sonar sensors to detect nearby obstacles and haptic feedback to provide directional cues through gentle vibrations, helping users navigate confidently without visual input.* By converting spatial data into tactile sensations, it ensures quiet, intuitive guidance and minimizes reliance on external aids. Compact, wearable, and user-friendly, this technology marks a significant step toward creating inclusive and intelligent assistive systems that empower individuals to move freely and safely in any environment.



Dr.
Sanjeev
Kumar
Pippal

3. Travel Platform System for Real-Time Trip Planning and Local Recommendations:

On 29th July 2025, under the guidance of Mr. Piyush Kushwaha, former faculty member of the Department of Computer Science and Artificial Intelligence (CSAI), the students of the department at GL Bajaj Institute of Technology and Management successfully filed and published a patent (Patent No. 202511071770).

Team Members:

- Harsh Rathi
- Ishita Pandey
- Krishna
- Junaid

Travel Platform System for Real-Time Trip Planning and Local Recommendations is an innovative solution designed *to enhance the travel experience* by providing real-time itinerary updates and personalized local suggestions. *The platform leverages smart algorithms and live data to help travelers plan routes efficiently, discover nearby attractions, restaurants, and events, and make informed decisions on the go.* By combining convenience, personalization, and timely insights, this system transforms travel planning into a seamless, engaging, and smarter experience for every explorer.



Ishita
Pandey



Junaid



Krishna



Harsh
Rathi

4. Smart Attendance Management System Using Face Recognition and Cloud-Based Real-Time Parental Notification:

On 29th July 2025, under the guidance of Mr. Piyush Kushwaha, former faculty member of the Department of Computer Science and Artificial Intelligence (CSAI), Kritika and Mitali, students of the department at GL Bajaj Institute of Technology and Management, successfully filed and published a patent (Patent No. 202511071775).

Team Members:

- Kritika Joshi
- Mitali Jha

The highlights of their research focus on a smart attendance management system using face recognition and cloud-based real-time parental notifications, enhancing accuracy, efficiency, and transparency in school management. Smart Attendance Management System Using Face Recognition and Cloud-Based Real-Time Parental Notification is an innovative solution designed to streamline attendance tracking in educational institutions. The system leverages facial recognition technology to automatically mark student attendance and uses the cloud to instantly notify parents in real time. By ensuring accuracy, reducing manual errors, and keeping parents informed, this smart system enhances school management efficiency while promoting safety and transparency for students.

Kritika
Joshi



Mitali
Jha

5. System for Instant Cloth Rental:

On 29th July 2025, under the joint guidance of Mr. Satyam Kumar Sainy and Mr. Piyush Kushwaha, former faculty members of the Department of Computer Science and Artificial Intelligence (CSAI), Harsh Mishra, Harsh Singh Chandel, Harshit Kumar Mishra, and Karan Sundriyal, students of the department at GL Bajaj Institute of Technology and Management, successfully filed and published a patent (Patent No. 202511082748).

System for Instant Cloth Rental is an innovative platform designed to make fashion more accessible, convenient, and sustainable. Users can browse a wide range of clothing items through an app, select their preferred outfits, and get them delivered instantly for short-term use. By offering real-time booking, easy returns, and eco-friendly options, the system reduces the need for frequent purchases, promotes sustainable fashion, and provides a seamless rental experience for every user.

This remarkable achievement underscores the team's innovative mindset and dedication to research, while also reflecting the department's commitment to fostering collaboration, creativity, and technical excellence.



Harsh
Singh
Chandel



Harsh
Mishra



Harshit
Kumar
Mishra



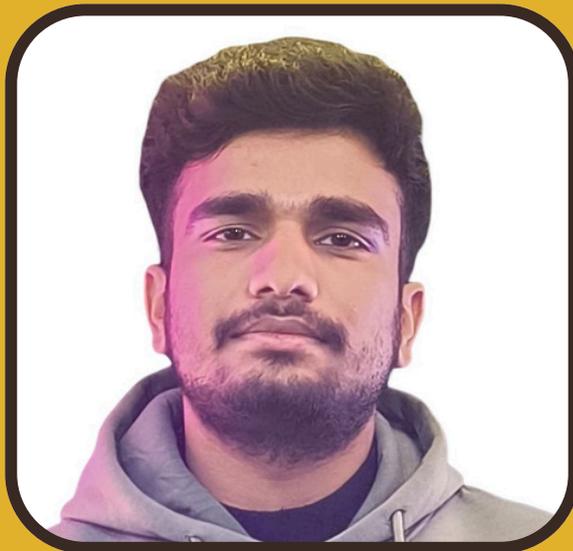
Karan
Sundriyal

6. Hybrid Reward Apparatus for Customer Transaction Management:

On 23rd July 2025, under the guidance of Mr. Pawan Kumar Mall, former faculty member of the Department of Computer Science and Artificial Intelligence (CSAI), *Worship Aggarwal*, a student of the department at GL Bajaj Institute of Technology and Management, *successfully secured a published patent*, marking a significant milestone in their research and innovation journey.

Hybrid Reward Apparatus for Customer Transaction Management is an innovative system designed to enhance customer engagement and streamline reward tracking. *By integrating multiple reward mechanisms into a single platform, the system allows businesses to efficiently manage transactions, monitor customer activity, and provide timely incentives.*

This remarkable achievement reflects the department's dedication to nurturing creativity, technical excellence, and a spirit of innovation among students encouraging them to transform their ideas into impactful technological solutions.



Worship
Aggarwal

*A Sincere Thank You from
The CSE-AI Department Newsletter Team!*

The AI Department Newsletter Team extends heartfelt gratitude for the generous support that made this edition possible. We are especially thankful to the Department of CSE-AI for providing us with a platform to showcase the pioneering achievements and initiatives in the field of artificial intelligence.

We express our sincere appreciation to our respected Director, HOD, and faculty members whose constant guidance and encouragement have been instrumental in shaping this newsletter into a meaningful reflection of our department's progress.

We also wish to acknowledge the unwavering support of the Vividhata Club. Your commitment to fostering student growth continues to inspire us, and we are confident that this newsletter serves as a valuable avenue for students to explore their technical and creative potential.

Warm regards,
Editorial Team
Department of CSE-AI

“Together, we innovate, inspire, and lead — the spirit of CSE-AI continues”