

NOVEMBER 2025

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THE DEPARTMENT OF CSE-DS

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# ADVYATAN

## NEWSLETTER



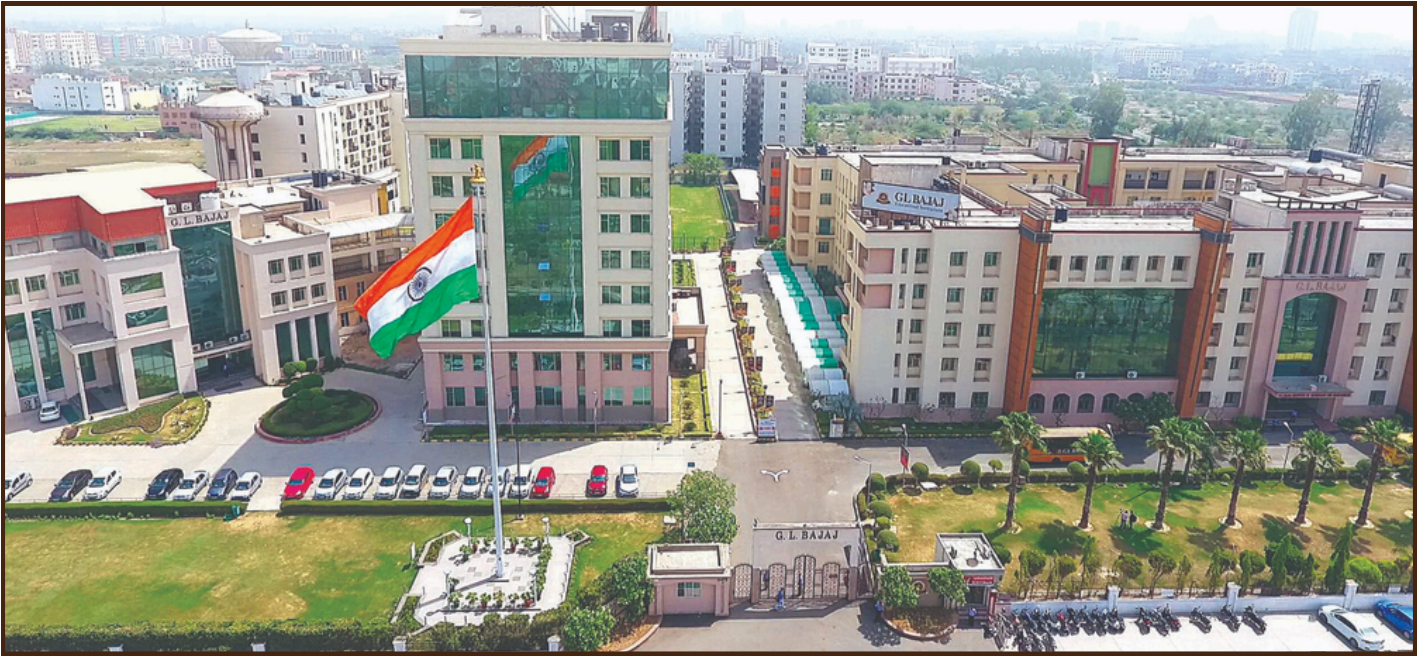


# CONTENT

About the Institution	03
Message from Director	04
Message from H.O.D.	05
CSE-DS Faculty Members	06
Editors	07
About YUKTIKULA Club	08
Club Events	09
Faculty Wall	11
Students' Achievements	15



# ABOUT THE INSTITUTION



GL 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 UP & 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.

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**Dr. Preeti Bajaj**  
Director, GLBITM



# MESSAGE FROM HOD



*“Education is the spark that ignites the fire of knowledge, illuminating the path to truth and understanding.”*

The Department of Computer Science and Engineering (Data Science) continues to strive toward academic excellence, research innovation, and industry collaboration.

In an era where data drives decision-making across every sector, our curriculum is designed not only to equip students with technical proficiency in data science, machine learning, and artificial intelligence but also to foster critical thinking, ethical responsibility, and lifelong learning. We take pride in our students' achievements in national and international competitions, research publications, and successful internships and placements.

Our faculty members remain at the forefront of cutting-edge research, working on interdisciplinary projects and contributing to both academia and industry. With continuous updates in curriculum, strong mentorship, and active student clubs and hackathons, we aim to create a vibrant and inclusive learning environment.

I invite all our stakeholders—students, alumni, faculty, and industry partners—to remain actively engaged with the department. Your support and participation are vital in our shared journey toward excellence.

Let us continue to learn, innovate, and grow together.

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**Dr. Harikesh Singh**  
HOD, CSE-DS



# CSE-DS FACULTY MEMBERS



The Department of Computer Science and Engineering (Data Science) at GL Bajaj Institute of Technology and Management is home to a distinguished and dedicated team of faculty members who bring a perfect blend of academic expertise, research excellence, and industry experience. The faculty members are passionate educators who are committed to shaping the next generation of data scientists and innovators.

The department fosters a student-centric learning environment, where faculty members mentor, guide, and inspire students to excel academically and professionally. Their open-door policy and commitment to continuous learning ensure that students are supported at every step of their academic journey.

Together, the CSE (Data Science) faculty at GL Bajaj uphold the institute's vision of excellence, innovation, and holistic development.



# EDITORS



**HOD CSE-DS:**  
DR. HARIKESH SINGH

**EDITOR:**  
MS. RACHNA SINGH SISODIA

**EDITOR:**  
MS. PRIYA SINGH

**MEMBER:**  
KUNAL SATI (CSE-DS 2, 3<sup>RD</sup> YEAR)

**MEMBER:**  
VAISHNAVI VASHU (CSE-DS 5, 2<sup>ND</sup> YEAR)



# ABOUT YUKTIKULA CLUB

DEPARTMENT OF CSE-DS



## HEAD CHAIRS

### FACULTY COORDINATORS

Ms. Rachna Singh Sisodia,  
Ms. Priya Singh

### PRESIDENT

Kunal Sati

### VICE PRESIDENT

Ansh Kumar

### SECRETARY

Shanhavi Tiwari

### EMAIL

yuktikula@glbitm.ac.in

### WEBSITE

<https://www.yuktikulaglbajaj.com>

In a rapidly globalizing world, it is essential to be prepared for evolving challenges. At GL Bajaj, we continuously monitor advancements in technology, science, and social trends to equip our students for the future.

With a strong record of academic excellence, hands-on industrial training, and active industry engagement, GL Bajaj ensures that its students are industry-ready. Our outstanding placement results highlight their technical expertise and leadership skills.

Committed to quality education, GLBITM promotes Faculty Development Programs, seminars, workshops, and conferences to keep our faculty and students at the forefront of innovation. Through vibrant initiatives like the Yuktikula club, we nurture creativity, innovation, and leadership beyond academics.

On behalf of GL Bajaj, we invite you to embark on a journey of growth, excellence, and opportunity with us.



## CLUB EVENTS

# DIWALI CELEBRATION

The Yuktikula Club of the Computer Science and Engineering – Data Science department at GL Bajaj Institute of Technology and Management organized a grand and heartwarming Diwali Celebration on October 16, 2025, at the CTM Building. The event beautifully captured the essence of the festival of lights, spreading joy, unity, and festive spirit across the department. The celebration began with the traditional Deep Prajwalan (lamp lighting) ceremony, symbolizing the victory of light over darkness and wisdom over ignorance.

The venue came alive with colorful decorations, vibrant cultural performances, and cheerful participation from faculty and staff members who showcased their talents and enthusiasm. A series of engaging games and fun activities added an extra spark to the occasion, followed by a delightful festive lunch that brought everyone together in a spirit of camaraderie. As a gesture of gratitude, gifts were distributed not only to the faculty members but also to the department's support staff, acknowledging their invaluable contributions throughout the year.





# CLUB EVENTS

## DIWALI CELEBRATION





## FACULTY WALL

# MS. RACHANA SINGH SISODIA

(FACULTY ACHIEVEMENT IN INTERNATIONAL RESEARCH AND REVIEW ACTIVITIES)

The Department of Computer Science and Engineering – Data Science at G.L. Bajaj Institute of Technology & Management, Greater Noida, proudly recognizes the outstanding accomplishments of Ms. Rachana Singh Sisodia for her significant contributions in both academia and research.

She served as a Technical Program Committee Member at the 1st International Conference on Next-Generation Networks and Deployable Artificial Intelligence (NGNDAI-2025), which was organized by the Department of Computer Science and Engineering at Motilal Nehru National Institute of Technology (MNNIT), Allahabad, taking place from September 18–20, 2025.

Additionally, Ms. Sisodia was a Conference Reviewer for the 2025 IEEE 7th International Conference on Computing, Communication and Automation (ICCCA-2025), hosted by Galgotias University, from \*\*November 28–30, 2025.

These accomplishments exemplify her commitment to academic excellence, research integrity, and her ongoing efforts to make meaningful contributions to the fields of Computer Science and Artificial Intelligence.

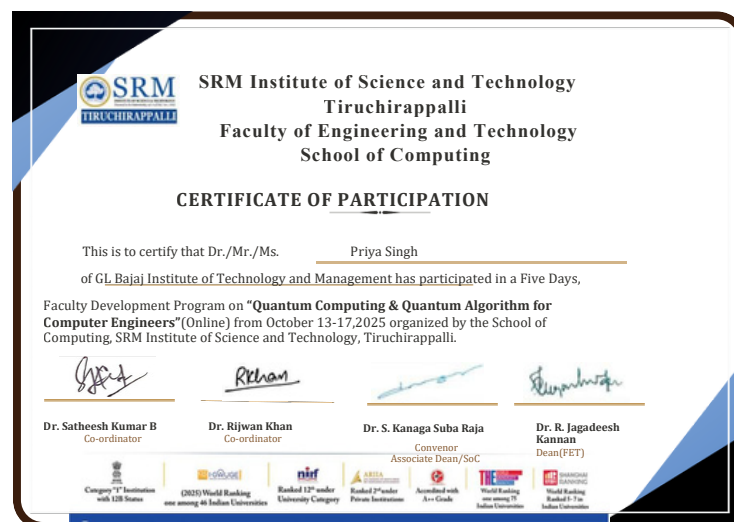




Priya Singh from GL Bajaj Institute of Technology and Management successfully participated in a Five-Day Faculty Development Program (FDP) on “Quantum Computing & Quantum Algorithm for Computer Engineers.” The event was organized by the School of Computing, SRM Institute of Science and Technology, Tiruchirappalli, from October 13 to 17, 2025.

The FDP aimed to equip participants with in-depth knowledge of emerging trends in quantum computing – a field that is revolutionizing modern computation. Through interactive sessions, demonstrations, and discussions, participants explored the principles of quantum mechanics, algorithm design, and real-world applications in computing.

Priya’s active participation in this FDP reflects her commitment to continuous learning and advancing expertise in cutting-edge technologies. Such programs bridge the gap between academic learning and futuristic innovation, fostering a spirit of research and technological excellence among educators and professionals alike.





## DR. RITUPARNA SARMA

(RECOGNITION OF FACULTY CONTRIBUTION TO GLOBAL RESEARCH CONFERENCES)

The Department of Computer Science and Engineering (Data Science) at G.L. Bajaj Institute of Technology and Management, Greater Noida, proudly celebrates the achievements of Dr. Rituparna Sarma for her remarkable contributions in medical image processing and AI.

Dr. Sarma presented her research paper titled “Comparative Analysis for the Detection of Cancerous Cells in Liver Organ Using Marker-Controlled Watershed Transform Segmentation Algorithm” at the 8th International Conference on Innovative Computing and Communication (ICICC-2025), organized by Shaheed Sukhdev College of Business Studies, University of Delhi, in collaboration with NIT Patna and the University of Valladolid, Spain. Her paper, published by Springer, proposes advanced AI techniques for more accurate liver tumor detection.

She also secured a published patent (Application No. 202511069911 A) titled “Liver Tumor Segregation and Classification Using Marker-Controlled Watershed”, introducing a computer-based method to automate tumor detection and classification.

Additionally, Dr. Sarma contributed to two Scopus-indexed book chapters published by CRC Press (Taylor & Francis) on AI-enabled healthcare and disease prediction.

Her achievements are a proud moment for GLBITM, inspiring students to pursue innovation and impactful research.



(12) PATENT APPLICATION PUBLICATION		(21) Application No. 202511069911 A
(19) INDIA		(43) Publication Date: 15/08/2025
(22) Date of filing of Application: 23/07/2025		(43) Publication Date: 15/08/2025
(54) Title of the invention: LIVER TUMOR SEGREGATION AND CLASSIFICATION USING MARKER-CONTROLLED WATERSHED		
(51) International Classification: G06T00711000, G06T00700000, G06G00241000, G06T00715000, G06H00200000	(71) Name of Applicant: G.L. Bajaj Institute of Technology and Management	
(56) International Application No: NA	Address of Applicant: Plot No. 2, APT Abhai Kalam Road, Knowledge Park III	
(57) International Filing Date: NA	Greater Noida Uttar Pradesh India 201306 Greater Noida	
(58) International Publication No: NA	Name of Applicant: NA	
(59) Point of Addition to Application Number: NA	Address of Applicant: NA	
(60) Filing Date: NA	Id: RITUPARNA SARMA	
(61) Divided to Application Number: NA	Address of Applicant: Department of Computer Science and Engineering - Data Science, G.L. Bajaj Institute of Technology and Management, Plot No. 2, APT Abhai Kalam Road, Knowledge Park III, Greater Noida Uttar Pradesh India 201306	
(62) Divided to Application Number: NA	Greater Noida	
(63) Filing Date: NA		
(57) Abstract		
The present invention relates to a liver tumor segmentation and classification using marker-controlled watershed. More specifically, to a computer-based method that automatically detects and classifies liver tumors in CT images using image processing and machine learning, helping doctors plan accurate treatment. The system includes a computing unit that receives liver CT images and uses an adaptive marker-controlled watershed algorithm to segment liver and tumor regions. It reduces noise using a smoothing filter and improves boundary accuracy through shape constraints. Features such as texture and shape are extracted and weighted based on tumor stage. A machine learning model, specifically a support vector machine, is used to classify the tumor into low, medium, or high stages. This method and system aim to provide fast, reliable and fully automatic liver tumor detection and staging to support better clinical decision-making.		
No. of Pages: 14 No. of Claims: 6		



## FACULTY WALL

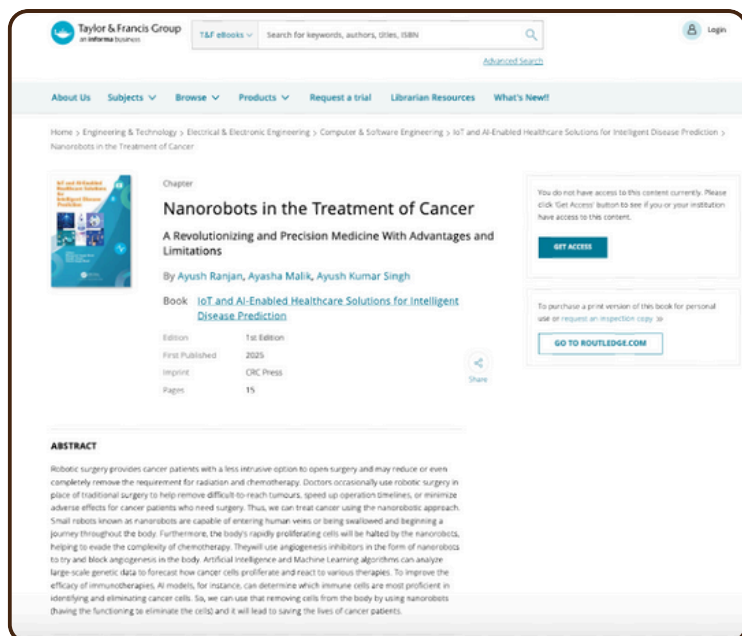
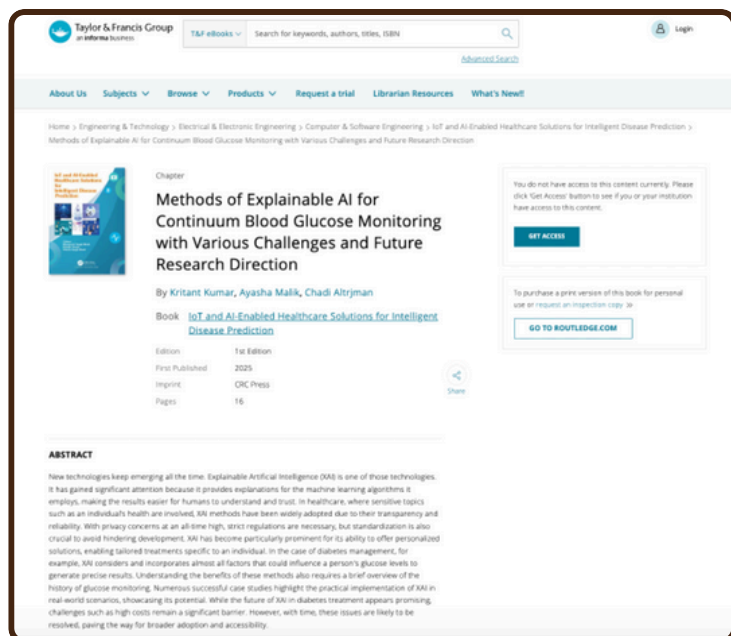
# MS. AYASHA MALIK

## PUBLISHES TWO SCOPUS-INDEXED BOOK CHAPTERS

We are delighted to share that Ms. Ayasha Malik, faculty member of the Department of Computer Science and Engineering (Data Science), has made a remarkable contribution to research and innovation with the publication of two Scopus-indexed book chapters under the prestigious Taylor & Francis – CRC Press.

The first chapter, titled “Nanorobots in the Treatment of Cancer: A Revolutionizing and Precision Medicine with Advantages and Limitations,” authored by Ayasha Malik, explores the transformative role of nanotechnology and robotics in modern cancer treatment, highlighting the precision, potential, and limitations of this emerging field.

The second chapter, “Methods of Explainable AI for Continuum Blood Glucose Monitoring with Various Challenges and Future Research Direction,” authored by Ayasha Malik, focuses on the integration of Explainable Artificial Intelligence (XAI) techniques in continuous glucose monitoring systems, addressing real-time healthcare challenges and future research direction.





# STUDENT'S ACHIEVEMENTS

## PLACEMENT RECORDS 2025



**NAME :** PARAM SAXENA  
**COMPANY :** THOUGHTWORKS  
**PACKAGE:** ₹11.10LPA



### MESSAGE FROM STUDENT

I wanted to express my deepest gratitude to my parents for their unwavering love and support throughout my college journey. I especially want to thank the Placement Cell and faculty members. Your efforts in organizing placement drives and providing interview and communication skills training were instrumental in my success.

**NAME :** JIGISHA BALIYANN  
**COMPANY :** WEBKUL SOFTWARE PVT. LTD.  
**PACKAGE :** 4.2 LPA  
**BRANCH :** CSE(DS)  
**ROLE :** TRAINEE SOFTWARE ENGINEER



### MESSAGE FROM STUDENT

I sincerely want to thank the CSE-DS department for support and guidance provided and TnP department for providing right opportunities to get placed as such good product-based company despite being from last training group. Humble love for my parents and teachers who believed in my strengths, and to seniors and friends for their constant support and guidance which made this possible.



**NAME :** STUTI SINGH  
**COMPANY :** EDOOFA  
**PACKAGE:** ₹8LPA  
**BRANCH :** CSE-AIDS



### MESSAGE FROM STUDENT

I would like to express my sincere gratitude to the faculty members and the Training and Placement Cell for their continuous guidance, encouragement, and support throughout this journey. This opportunity marks a significant milestone in my professional growth, and I look forward to contributing effectively to the organization while upholding the values of my institution.



# STUDENT'S ACHIEVEMENTS

## PLACEMENT RECORDS 2025



**NAME :** SHIVENDRA SINGH

**COMPANY :** EDOOFA

**PACKAGE:** ₹12LPA

**BRANCH :** CSDS 3

**Edoofa**

### **MESSAGE FROM STUDENT**

I wish to express my gratitude to my mother, whose unwavering love and steadfast trust in me served as a constant motivation. I must also acknowledge my friends for their support and encouragement throughout my college life. Finally, a special note of appreciation goes to the Training and Placement Cell and the entire faculty of the CSE Data Science Department.

# STUDENT'S ACHIEVEMENTS

## SILVER MEDAL ACHIEVEMENT AT AKTU ZONAL SPORTS FEST



Vedansh Jha, a student of Computer Science and Engineering (Data Science), proudly shared his recent achievement at the AKTU Zonal Level Sports Fest, where he and his team won the Silver Medal.

Representing G.L. Bajaj Institute of Technology and Management, Vedansh showcased excellent teamwork, determination, and sportsmanship throughout the event. His dedication and consistent effort contributed significantly to the team's success.

## PROUD REPRESENTATION IN AKTU ZONAL GAMES

The Department of Computer Science and Engineering (Data Science) at G.L. Bajaj Institute of Technology & Management is glad to announce that one of its students proudly represented the institute in the AKTU Zonal Games under the Table Tennis (TT) category.

Demonstrating remarkable skill and sportsmanship, the student Lavi Panwar secured the 3rd position after a highly competitive series of matches. Despite a close contest that could have earned a higher rank, the performance was commendable and brought pride to the department and the institute.



Off to AKTU ZONALS 2025





# STUDENT'S ACHIEVEMENTS

## G.L. BAJAJ STUDENTS SHINE AT IIMT HACKATHON



The Department of Computer Science and Engineering (Data Science) at G.L. Bajaj Institute of Technology & Management is glad to announce that a team of students, including Eshlok Tandon from 2nd year, secured the 2nd Runner-Up position in the Code Odyssey 2.0 Hackathon, held at IIMT College, Greater Noida.

The event provided an excellent platform for students to apply their technical knowledge, creativity, and problem-solving skills. The team's innovative approach and collaborative effort were highly appreciated, making this achievement a proud moment for the department and the institute.

## CSE-DS STUDENTS BAG FIRST RUNNER-UP AT "TANDAV – NRITYA MAHOTSAV"

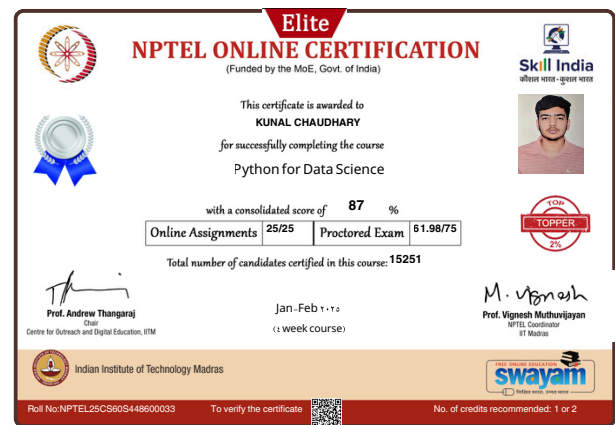
The Navrang Cultural Club at GL Bajaj Institute of Technology and Management organized "Tandav – Nritya Mahotsav" on October 4, 2025, celebrating India's classical and folk dance traditions. The event showcased diverse performances, including Bharatanatyam, Kathakali, Lavani, Garba, and Bhangra. A standout performance by Computer Science and Engineering (Data Science) students earned them the First Runner-Up position, featuring the talented team of Anmol Pachauri, Krishika Sachan, Krishu Kumar, Abhiroop Chandra, Diya Gupta, Vaishnavi Vashu, Gurleen Kaur, Devansh Mishra, Harsh Keswani, Prashasti Pandey, Chahat Maurya, and Eshendra Bidhautiya.



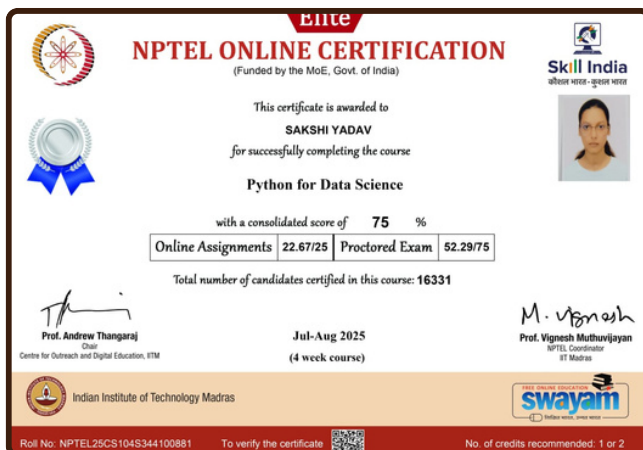
# STUDENT'S ACHIEVEMENTS

## PROUD MOMENT FOR G.L. BAJAJ – NPTEL SUCCESS BY KUNAL CHAUDHARY

Kunal Chaudhary, a student at G.L. Bajaj Institute of Technology and Management, completed the NPTEL Online Certification Course “Python for Data Science” with an impressive score of 87% during the Jan–Feb 2025 session. This achievement highlights his commitment to continuous learning in emerging technologies. The institute congratulates him and wishes him success in his future endeavors.



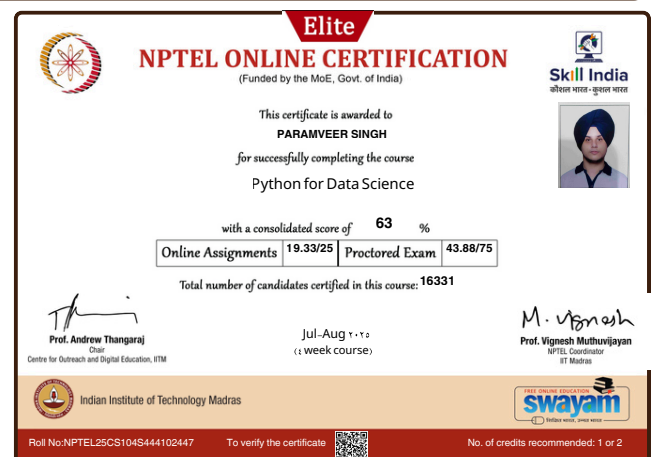
## ACHIEVEMENT IN NPTEL ONLINE COURSE BY IIT MADRAS



Sakshi Yadav, a student at G.L. Bajaj Institute of Technology and Management, completed the NPTEL Online Certification Course “Python for Data Science” from IIT Madras with a score of 75%, earning the Elite Certification. The four-week course offered extensive knowledge of Python for data analysis and scientific computing. The institute congratulates her on her dedication and commendable performance.

## ACHIEVEMENT IN NPTEL ONLINE COURSE BY IIT MADRAS

Paramveer Singh, a G.L. Bajaj Institute of Technology and Management student, completed the NPTEL Online Certification Course “Python for Data Science” from IIT Madras with a score of 63% during the July–August 2025 session. This four-week course enhanced his skills in Python programming, data analysis, and scientific computing, boosting his proficiency in data-driven problem-solving.





NOVEMBER 2025



# GL BAJAJ

Institute of Technology & Management

**FIND YOUR SPARK**

Approved by AICTE & Affiliated to AKTU

## THE DEPARTMENT OF CSE-DS

