

NOVEMBER 2025

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. Preeti Bajaj
Director, GLBITM

MESSAGE FROM HOD



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

In today's dynamic world, driven by rapid advancements in technology and globalization, it has become imperative for institutions to prepare students not only with academic knowledge but also with practical skills, adaptability, and a global perspective.

At GL Bajaj Institute of Technology & Management, we are deeply committed to nurturing an environment that fosters innovation, creativity, and problem-solving. Our academic framework is designed to balance theoretical foundations with practical exposure through industrial collaborations, hands-on training, and project-based learning.

We take immense pride in our students who, through their dedication and skill, have consistently excelled in both academia and professional pursuits. The impressive placement records reflect their competence, determination, and readiness to face real-world challenges.

Furthermore, our continuous focus on faculty development programs, research initiatives, seminars, and workshops ensures that both our students and faculty remain aligned with the latest trends and emerging technologies.

Together, we are working to create a community of learners and leaders who will contribute meaningfully to society and shape the future with responsibility and vision.

Dr. Santosh K. Srivastava
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. SANTOSH KUMAR SRIVASTAVA

FACULTY COORDINATOR:

MS. MAITRI MANYA

MS. ZARRISH IQRAR

EDITORS:

KRITIKA (B. TECH AIML E - 3rd YEAR)

AVICHAL PANDEY (B. TECH AIML E - 3rd YEAR)

DAKSH BHASIN (B.TECH CSE-AIML - 2nd 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.

Through technical workshops, seminars, hackathons, expert talks, and cultural activities, it bridges the gap between classroom learning and real-world applications. With hands-on exposure to tools and technologies, the club enhances skills vital for hackathons, coding contests, and industry projects. In the past two years, Abhyudaya has organized 33 impactful events, including a Tech Talk, a seminar on AI Standardization, and a 5-day FDP on Deep Learning, Generative AI, and Data Science.

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

PROF. DR. PREETI BAJAJ

The MEDHA Medical Device Hackathon is a two-day event at GLBITM, in association with IIT Bombay, where doctors and engineers collaborate to design and prototype innovative medical devices, with a special focus on women's health.

The MEDHA: A Medical Device Hackathon, launched its two-day event with an inaugural ceremony at GL Bajaj Institute of Technology and Management (GLBITM), conducted in association with IIT Bombay. Mr. S.P. Mishra graced the event as the Chief Guest, marking the official start of a journey focused on creativity, technology, and problem-solving. This unique hackathon is designed to unite brilliant doctors and engineers who

collaborate to design, prototype, and develop cutting-edge medical devices. A specific and crucial goal of the initiative is to create solutions aimed at revolutionizing healthcare, with a particular emphasis on innovations for women's health.



At its heart, MEDHA celebrates the ethical principle of engineering for humanity, operating with mentorship, teamwork, and innovation as its core values. By bringing together diverse professional expertise, the event challenges participants to transform theoretical ideas into practical prototypes, ensuring that the innovations are purposeful and serve life by addressing real-world medical needs. The strong association with IIT Bombay underscores the

commitment to maintaining high academic and technical standards, positioning MEDHA as a significant platform for promoting innovation and technological advancement within the medical device sector.

PROF. DR. PINKI SAGAR

("Indian Patent Application Publication (No. 202511089063 A) for the invention, "A SYSTEM AND METHOD USING QUANTUM COMPUTING FOR OPTIMIZED CRYPTOGRAPHIC KEY DISTRIBUTION," filed by Manav Rachna University and invented by a team including Dr. Pinki Sagar.")

The title of the groundbreaking invention is "A SYSTEM AND METHOD USING QUANTUM COMPUTING FOR OPTIMIZED CRYPTOGRAPHIC KEY DISTRIBUTION." The core team of inventors includes Dr. Pinki Sagar, Dr. Shalu, Dr. Deepti Thakral, and Mr. Aniket Singh.



The patent details a revolutionary system designed to future-proof digital security. The central innovation is a hybrid architecture that employs a Quantum

Optimization Engine utilizing algorithms like quantum annealing, integrated with entanglement-based key generation. This provides secure, scalable, and high-throughput cryptographic key distribution. Crucially, the system incorporates an adaptive error-correction layer powered by machine learning to dynamically maintain key integrity in volatile environments, ensuring resilience against both current and anticipated quantum attacks. By integrating with existing post-quantum schemes, this invention ensures a smooth transition to full quantum security for critical applications in finance, defense, healthcare, and the nascent quantum internet.

(12) PATENT APPLICATION PUBLICATION	(21) Application No.202511089063 A
(19) INDIA	
(22) Date of filing of Application :18/09/2025	(43) Publication Date : 10/10/2025
(54) Title of the invention : A SYSTEM AND METHOD USING QUANTUM COMPUTING FOR OPTIMIZED CRYPTOGRAPHIC KEY DISTRIBUTION	
(51) International classification	(71)Name of Applicant : 1)Manav Rachna University Address of Applicant :Faridabad, Haryana, India Haryana India
(31) Priority Document No	(72)Name of Inventor : 1)Dr. Shalu 2)Dr. Deepti Thakral 3)Mr. Aniket Singh 4)Dr. Pinki Sagar
(32) Priority Date	
(33) Name of priority country	
(86) International Application No	
Filing Date	
(87) International Publication No	
(61) Patent of Addition to Application Number	
Filing Date	
(62) Divisional to Application Number	
Filing Date	
(57) Abstract :	
The present invention discloses a system and method using quantum computing for optimized cryptographic key distribution across distributed networks. The invention integrates a Quantum Optimization Engine applying quantum algorithms such as quantum annealing or variational quantum algorithms with entanglement-based key generation modules to deliver secure, scalable, and high-throughput cryptographic keys. An adaptive error-correction and verification layer powered by machine learning dynamically responds to channel noise and environmental fluctuations to maintain key fidelity. Hybrid integration with post-quantum cryptographic schemes ensures backward compatibility with existing infrastructures while providing a pathway to full quantum security. This approach minimizes latency, maximizes throughput, and strengthens resilience against both classical and quantum attacks, thereby enabling future-proof secure communication for financial, defense, healthcare, and next-generation quantum internet applications. Accompanied Drawing [FIGS. 1-2]	
No. of Pages : 17 No. of Claims : 10	

PROF. DR. SANTOSH KUMAR SRIVASTAVA : A Visionary Leader and Pillar of Academic Excellence

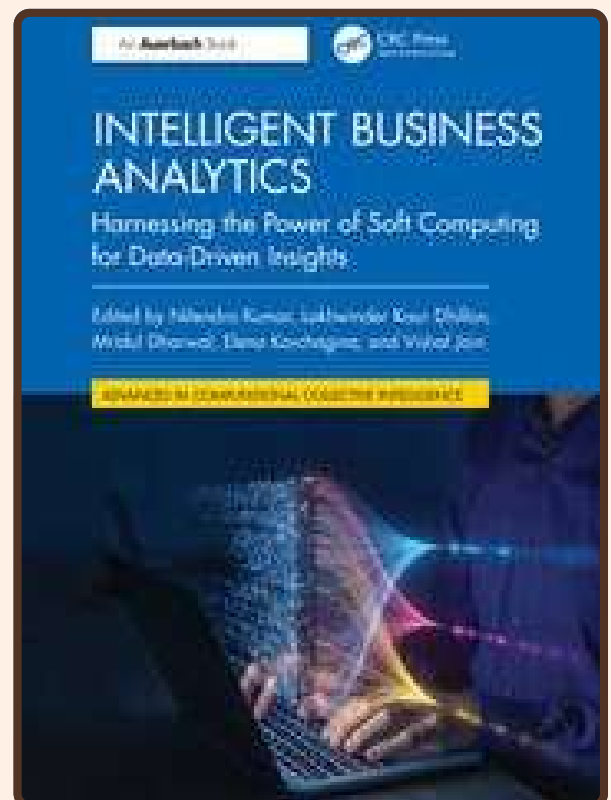


The Department of Computer Science and Engineering (AI & ML) proudly celebrates the outstanding achievement of Dr. Santosh Kumar Srivastava, our esteemed Head of Department, who has made a significant scholarly contribution as one of the distinguished authors in the book “INTELLIGENT BUSINESS ANALYTICS”, published by Taylor & Francis.

A respected academician with vast expertise in Artificial Intelligence, Machine Learning, and Data Science, Dr. Srivastava has made significant contributions through his scholarly publications and active participation in national and international research forums. Under his dynamic guidance, the department has flourished—witnessing remarkable progress in academic initiatives, research collaborations, and student development activities.

Dr. Srivastava continually inspires both faculty and students to pursue excellence and creativity. His emphasis on interdisciplinary learning and practical application has strengthened the department’s alignment with emerging global technological trends.

The entire CSE (AI & ML) fraternity extends its heartfelt congratulations for his exemplary achievement and expresses deep appreciation for his continued efforts in enhancing the academic and research environment. His leadership remains a guiding force in driving the department toward greater distinction and innovation.



PROF. DR. KIRAN MALIK

“Successfully completed the academic service of Conference Reviewer for the 2025 IEEE 7th International Conference on Computing, Communication and Automation (ICCCA-2025), organized by Galgotias University.”

Dr. KIRAN MALIK, professor of G L Bajaj Institute of Technology and Management, Greater Noida received a Certificate of Appreciation for serving as a CONFERENCE REVIEWER for the 2025 IEEE 7th International Conference on Computing, Communication and Automation (ICCCA-2025) (Nov 28-30,2025).



This recognized her vital academic contribution in critically evaluating submitted research papers to uphold the conference's rigorous standards.

Moreover, Dr. Kiran Malik successfully participated in the International Webinar on "Green HRM and Sustainable Development Goals (SDG)." This webinar was organized by the DEPT of MBA, KL Business School, KL Deemed to be University on September 27th, 2025, demonstrating a commitment to professional development in the crucial area where human resource management intersects with global sustainability targets.



"FDP on Knowledge Transfer" Session By PROF. DR. UPENDRA DWIVEDI

Knowledge Transfer promotes the exchange of ideas, expertise, and innovations among faculty members. It strengthens collaborative learning keeping educators updated with emerging trends. In the AI & ML department, KT fosters continuous growth and academic excellence

The Department of Computer Science and Engineering (AI & ML) at GL Bajaj Institute of Technology and Management organized a series of Faculty Development Programme (FDP) sessions titled "Knowledge Transfer Sessions", under the guidance of the Department Quality

Assurance Cell (DQAC). The initiative aimed to enhance faculty expertise in emerging domains of Artificial Intelligence and Machine Learning through interactive and insightful discussions. The session was conducted on 25th October in Room No. 510A, AB-2 and other sessions are to be conducted on 8th November, 22nd November, 29th November, and 13th December 2025.



The Department of CSE (AI & ML) organized a series of Knowledge Transfer Sessions featuring insightful talks by eminent faculty members. Dr. Upendra Dwivedi spoke on AI for Edge and IoT Applications: Challenges and Opportunities, followed by Dr. Kiran Malik

on Ethical AI and Responsible Machine Learning Research. Dr. Santosh Srivastava shared his views on Artificial Defection Systems, while Mr. Avinash Pandey presented on AI-Driven Software Development and Testing. The series concluded with Dr. Pinki Sagar discussing Natural Language Processing and Large Language Models (LLMs).

The FDP was efficiently coordinated by Ms. Maitri Many, Assistant Professor (CSE-AI&ML), with Dr. Upendra Dwivedi as the Co-Coordinator. The sessions encouraged faculty collaboration, innovative thinking, and continuous learning in emerging technologies.

This initiative played a key role in strengthening research culture and keeping educators aligned with evolving trends in Artificial Intelligence and Machine Learning.



PROF. MR. DEVENDRA SINGH MOHAN

("Successfully completed a one-week online Faculty Development Programme (FDP) on "Blockchain and AI for Next-Generation Cybersecurity," conducted by the College of Computing Sciences & IT (CCSIT), Teerthanker Mahaveer University, from September 23rd to 27th, 2025.")

Prof. MR. DEVENDRA SINGH MOHAN from G.L. Bajaj Institute of Technology and Management successfully completed a one-week online Faculty Development Programme (FDP). The program, titled "Blockchain and AI for Next-Generation Cybersecurity," was held from September 23rd to 27th, 2025, and was conducted by the College of Computing Sciences & IT (CCSIT) at Teerthanker Mahaveer University (TMU), Moradabad.



The key accomplishment here is the formal recognition of Mr. Mohan's advanced professional training. The knowledge learned and gained focuses on the crucial convergence of Artificial Intelligence (AI) for intelligent threat detection and Blockchain technology for creating immutable, decentralized security systems. This specialized expertise demonstrates the participant's commitment to staying current with future-forward security paradigms, enabling them to enhance their academic and research contributions in cybersecurity.



PROF. MS. PUJA PRIYA

(“Successfully completing the One-Week Faculty Development Programme (FDP) on “Emerging Trends and Challenges in Cyber Security”

We are pleased to recognize the achievement of Puja Priya, who is affiliated with the G.L. Bajaj Institute of Technology and Management in Gautam Budh Nagar, Uttar Pradesh, for participating in a Faculty Development Programme (FDP). The focus of this FDP was "GENERATIVE AI". It was conducted by the Computer Science and Engineering Department and took place at the G.L. Bajaj Institute of Technology and Management.

The certificate has the number ICT-3984/25 and is associated with the Intel digital readiness initiative. It is officially signed by Prof. C. Rama Krishna, the Course Coordinator from NITTTR, Chandigarh; Shweta Khurana, Senior Director, Asia Pacific & Japan, Government Partnerships & Initiatives, International Government Affairs, Intel; and Prof. (Dr.) B.R. Gurjar, the Director of NITTTR, Chandigarh.

We congratulate Ms. Puja for her commitment to continuous professional development. Her active engagement in such capacity-building programmes reinforces GL Bajaj’s emphasis on faculty excellence and ensures that our students benefit from contemporary, practice-oriented cybersecurity education.



PROF. MR. AVINASH PANDEY

Successfully participated in the FDP on "Advancing Physiotherapy: Integrating Research, Innovation & Technology" organized by Galgotias University (October 14-17, 2025).

This is a Certificate of Participation presented to Mr. Avinash Kumar Pandey from G.L. Bajaj Institute of Technology and Management, Greater Noida. The certificate recognizes his active involvement in a One-Week Online Faculty Development Program (FDP) titled "Advancing Physiotherapy: Integrating Research, Innovation & Technology for Transformative Healthcare," which was held from October 14th to 17th, 2025. This program was organized by the School of Allied Health Sciences, Galgotias University, Greater Noida, Uttar Pradesh.



The FDP focused on equipping faculty with knowledge on using research, innovation, and technology to modernize physiotherapy practices and improve healthcare delivery. The presence of Sustainable Development Goal (SDG) logos on the certificate, specifically related to health and partnerships, highlights the program's alignment with global objectives for improving health and well-being.



PROF. MS. ZARRISH IQRAR

“Successfully completed the AICTE Training and Learning (ATAL) Academy Faculty Development Programme on “Futuristic Manufacturing with 3D Printing and Digital Fabrication.”

Ms. Zarrish Iqrar successfully participated in a Faculty Development Program (FDP) organized to enhance teaching, research, and professional skills among academicians and researchers. The FDP aimed to provide an in-depth understanding of recent technological advancements, innovative pedagogical methods, and emerging research domains relevant to higher education.

During the program, participants engaged in a series of expert-led sessions, interactive workshops, and hands-on training modules.

The FDP provided valuable exposure to modern trends in artificial intelligence, data science, and machine learning applications, enabling participants to strengthen their subject knowledge and classroom delivery.

Ms. Zarrish’s active participation and her successful completion of the program highlights her dedication to professional growth and contribution to academic development within the field of Artificial Intelligence and related disciplines.



STUDENT'S ACHIEVEMENTS

"GOLD" IN THE HOUSE!

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The Department of CSE-AIML takes immense pride in celebrating the remarkable achievements of its 3rd-year students, KRITIKA and AVICHAL PANDEY, who have brought prestige and honor to GL Bajaj Institute of Technology and Management by clinching Gold in the AKTU Zonal Volleyball Tournament. Representing the Girls' and Boys' Volleyball teams, respectively, these exceptional students have once again proved that excellence knows no boundaries.

Their triumph is not just a win in volleyball but a victory of perseverance, discipline, and dedication. Kritika and Avichal embody the essence of true leadership - representing their department with pride and excellence. The department wholeheartedly congratulates these multi-talented individuals for their extraordinary contributions, both on the field and within the campus community.

Their journey stands as a testament to the holistic culture fostered by GL Bajaj, where academic brilliance and extracurricular excellence go hand in hand. The unwavering support of the college management, faculty mentors, and the CSE-AIML Department has played a pivotal role in shaping these champions - providing them with the resources, encouragement, and opportunities to pursue their passions on every front.



STUDENT'S ACHIEVEMENTS

NAME : PRANSHU KAMBOJ
BRANCH : CSE-AIML
COMPANY NAME : EDOOFA



I am pleased to share that I have been successfully placed with Edoofa. I would like to express my sincere gratitude to my faculty members and friends for their continuous guidance and encouragement throughout this journey. A special note of appreciation to Attiuttama Ma'am for her unwavering support, affection, and belief in my potential, which have been a constant source of motivation and strength.



VICTORY AT PITCHCRAFT - IEEE DAY

NAME : ANURAG SHUKLA
BRANCH : CSE-AIML 1

Showcasing remarkable innovation and presentation skills, Anurag Shukla (Programmers) secured 1st position in PitchCraft, a hackathon held during the IEEE Day Celebrations 2025, organized by the IEEE GTB4CEC Student Branch. Competing among several talented participants, Anurag impressed the judges with a creative idea, technical clarity, and confident pitching. His achievement reflects both technical excellence and a true spirit of innovation.



SIH 2025

NAME: ABHISHEK PAL
BRANCH : CSE-AIML-A

I'm delighted to share that Our team have been selected by our college to represent at the national level of the Smart India Hackathon (SIH) 2025 for a specific problem statement under the Software category.

Our team received official login credentials for the SIH portal and successfully submitted our project PPT. A total of 500 teams across India have submitted their ideas for the same problem statement, and we are now competing at the national level. The results are expected to be announced soon.

SMART INDIA HACKATHON 2025

Problem Statement ID - SIH25061

Problem Statement Title - Digitize and Showcase Monasteries of Sikkim for Tourism and Cultural Preservation

Theme - Travel & Tourism

PS Category - Software

Team ID - GID298

Team Name - Rhodo Troopers

Project Name - MONASTERY 360

MONASTERY 360

1) Multiscale Ecosystem: First step to merge tourism, digital preservation and community empowerment via one roof!

2) AI-powered virtual assistant: First step to merge tourism, digital preservation and community empowerment via one roof!

3) Immersive AR/VR: First step to merge tourism, digital preservation and community empowerment via one roof!

4) Live Streaming: Experience the sanctity of prayer and study with option for interactive video calls, and devices workable by connect 2G

5) Cultural content and event participation activity: Immersive first step to merge tourism, digital preservation and community empowerment via one roof!

6) Multiple content types as a portal for global tourists: First step to merge tourism, digital preservation and community empowerment via one roof!

7) The offline made available: Content access to remote areas: First step to merge tourism, digital preservation and community empowerment via one roof!

8) Cultural content and event participation activity: Immersive first step to merge tourism, digital preservation and community empowerment via one roof!

9) Multiple content types as a portal for global tourists: First step to merge tourism, digital preservation and community empowerment via one roof!

10) The offline made available: Content access to remote areas: First step to merge tourism, digital preservation and community empowerment via one roof!

STUDENT'S ACHIEVEMENTS



NAME : PRAGATI MISHRA

BRANCH : CSE-AIML

SECTION: D

I'm glad to share that I successfully completed a valuable 1-month internship in Web Development at SkillCraft Technology. This program ran from September 15th to October 15th, 2025. This achievement, formalized by a Certificate of Completion, validates her practical, hands-on experience in a critical technological domain, significantly enhancing her career readiness.

NAME : ANUSHKA GUPTA

BRANCH : CSE-AIML

SECTION: A

I am glad to share that I have successfully completed the Microsoft learning program "Get Started with Machine Learning in Azure." This achievement helped me gain foundational knowledge of machine learning and hands-on experience with Azure tools.



NAME : RUCHIKA

BRANCH : CSE-AIML

SECTION: D

I'm delighted to share that I, Ruchika Nagar, have successfully completed the Network Security Fundamentals course. This certification is from the Palo Alto Networks Cybersecurity Academy. Authorized on October 26, 2025, it validates my foundational knowledge in network security. The certificate is personally signed by Nikesh Arora, Chairman and CEO of Palo Alto Networks.

NAME : DIVIK DUBEY

BRANCH : CSE-AIML

SECTION: B

I'm thrilled to announce that I've successfully completed the be10x AI Tools and ChatGPT workshop! This has significantly boosted my practical skills, certifying my proficiency in using AI for high-efficiency tasks, specifically creating presentations in under 5 minutes, analyzing data in under 30 minutes, and coding and debugging in under 10 minutes.



STUDENT'S ACHIEVEMENTS



NAME : RAJ PANWAR

BRANCH : CSE-AIML

SECTION: D

I'm happy to announce that I've successfully completed the online, non-credit course "Machine Learning I" offered through Columbia+! This achievement demonstrates my commitment to continuous learning in a critical technology domain, and I completed the course on October 22, 2025.

NAME : SARTHAK GUPTA

BRANCH : CSE-AIML

SECTION: D

This is a Certificate of Completion awarded to Sarthak Gupta for successfully finishing the British Airways Data Science Job Simulation, a virtual experience provided by Forage. Completed on October 23rd, 2025, the simulation certified his practical skills in tasks like modeling lounge eligibility and predicting customer buying behaviour.



NAME : JAI THAWAL

BRANCH : CSE-AIML

We are congratulating Jai Thawal for successfully completing the "Introduction to Generative AI Studio" certification on October 28th, 2025. This achievement highlights his growing expertise in the field of Artificial Intelligence and his commitment to exploring innovative AI-driven technologies.

NOVEMBER 2025



GL BAJAJ
Institute of Technology & Management

FIND YOUR SPARK

Approved by AICTE & Affiliated to AKTU

THE DEPARTMENT OF CSE-AIML

