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Principal Cloud Advocate at Microsoft  
The Netherlands



# Bits & Bytes

*MCA NewsLetter*

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# Message from Patrons

## Chairman's Message



Firm belief in values is the main source of our abilities which gives us strength, courage, conviction, and commitment on a continuous basis.

Dr. R.K. Agarwal  
The Founder of the

## Vice Chairman's Message



We firmly believe that support, guidance and assistance play a phenomenal role in transforming students into professionals with sheer excellence and sharp focus.

Pankaj Agarwal

## Director Message



Our expertise coupled with rock solid principles, excellent infrastructure, competent faculty members, robust teaching methodology and industrial relations place us well above the rest.

Dr. Preeti Bajaj

## HOD Message



The Department seeks to combine excellence in education with service to the industry. Our vision is to be recognized as innovative and leading MCA Department. Our goal is to provide students with a balance of intellectual and practical experiences that enable them to serve a variety of societal needs. In our department students are nurtured to become best software professionals as Project Managers, System Analysts or Team leaders in Industry or become Entrepreneurs in their own innovative way.

Dr. Madhu S. Gaur

The Department of Master of Computer Applications at GL Bajaj Institute of Technology & Management started in the year 2006 with a vision "To become a center of repute and developing computer professionals who can respond to social and global challenges". The Department focuses on the attainment of professional excellence by providing acquaintance with new IT tools and technologies. The branch of Master of Computer Applications focuses on the scientific research, scientific programming, Application programming, software testing and software engineering. The Department has well-furnished laboratories with contemporary hardware and software resources, lecture halls, seminar halls, tutorial rooms and faculty sections.

### Vision & Mission

“ To become a center of repute and developing computer professionals who can respond to social and global challenges. ”



### Mission

- To impart quality education with sound practical knowledge for societal and global recognition.
- To provide exposure and awareness about Industry needs and challenges through mutual association.
- To provide environment for innovation, incubation and entrepreneurship.
- To develop moral values and ethics in our graduates.

## Digital Defence Drive: Empowering Young Minds About Cyber-Security

The Department of Master of Computer Applications, G.L. Bajaj Institute of Technology & Management, organized an enriching outreach event titled “**Digital Defence Drive**” on **4th October 2025**. The event aimed to inspire and educate school students about the importance of cyber security in today’s digital world.

A group of **MCA students** visited **CRR Modern Public School, Sector 168, Noida**, to conduct a session which began with an engaging presentation that introduced the basics of cyber security — explaining how to stay safe online, recognize fake links, and protect personal information from hackers.

The team also demonstrated a **practical session** showing how hackers can misuse email and passwords, and how simple precautions can prevent such attacks. Students are also introduced to **deepfake technology**, learning how it works and the risks it poses when used for harmful purposes. The young learners participated actively, showing great enthusiasm and curiosity throughout the session. They interacted freely and shared their own experiences. To encourage participation, **gifts** were distributed to the students.

“**Digital Defence Drive**” not only spread awareness among school students but also provided MCA students with valuable teaching and communication experience. The initiative truly reflected the institute’s commitment to creating a **digitally safe and responsible society**.

### Poster for the Social Event:



Glimpse of the Defence Drive:



## AgentCon Mini Hack: Build Your Own Pizza-Ordering Agent

The Department of MCA, G.L. Bajaj Institute of Technology & Management, in collaboration with C# Corner, successfully hosted a hands-on and interactive workshop titled “One Day AgentCon Mini Hack: Build Your Own Pizza-Ordering Agent” on 8th October 2025 at the institute’s campus.

The session provided students with practical exposure to Artificial Intelligence, Azure cloud services, and automation, allowing them to build AI-powered applications in a fun and engaging way. Participants gained real-world experience in developing AI agents and deploying them on Azure cloud, under the guidance of industry experts.

The workshop aimed to bridge the gap between theoretical knowledge and real-world application, allowing students to work with advanced tools and technologies commonly used in the software industry. It emphasized active learning, problem-solving, and collaborative development, encouraging participants to apply AI concepts in practical scenarios.

### Poster of the Event:



## Expert Speakers

### Henk Boelman – Principal Cloud Advocate, Microsoft, The Netherlands

Henk Boelman is a distinguished AI and Azure expert, part of Microsoft's AI Cloud Advocate team. He has extensive experience in **developing AI-driven applications**, cloud computing, and supporting developers worldwide. A former **Microsoft AI MVP**, Henk has developed multiple AI platforms on Azure and guided numerous workshops globally to enhance practical AI skills among students and professionals.



### Stephen Simon – Cloud & AI Advocate | Regional Director, C# Corner (India & Asia Pacific)

Stephen Simon is a prominent Cloud and AI evangelist with hands-on experience in **developer community building** and hackathon organization. He has successfully conducted **50+ virtual conferences**, hosted **600+ industry experts**, and led **30+ national hackathons** through HackIndia, India's largest Web3 and AI hackathon initiative. During the session, he shared valuable insights on **cloud technologies, AI implementation, and best practices for software development**.

Glimpse for the Event:



**JOY OF GIVING:**

The *Joy of Giving* event, organized by the Department of Master of Computer Applications at GL Bajaj Institute of Technology & Management, Greater Noida, celebrates the spirit of kindness, sharing, and community service. Held on **17th October 2025** at the MCA Block, faculty to come together and contribute generously for a meaningful cause. Surrounded by vibrant festive décor and an atmosphere of warmth, the initiative reflects the institute's commitment to nurturing empathy, social responsibility, and human values among learners. Through this celebration, the GL Bajaj family spreads joy, inspires goodwill, and reinforces the importance of giving back to society.



## “Forecasting Cyber Security Threats: A Machine Learning Approach with Decision Trees Leading the Way”

Dr. Kajal Rai and Mr. Akhilesh Nagar published the research paper “Forecasting Cyber Security Threats: A Machine Learning Approach with Decision Trees Leading the Way” in ICOTET 2024 under AIP, on 28 October 2025. The paper focuses on predicting cybersecurity threats using machine learning, with decision-tree models playing a central role in enhancing threat-forecasting accuracy.



## “Enhancing IoT Security from DDoS Attacks with Machine Learning Algorithms”



Ms. Kavita Singh and Mr. Nirmal Kumar Saraswat authored the paper “Enhancing IoT Security from DDoS Attacks with Machine Learning Algorithms”, which was published in AIP as part of ICOTET 2024 in October 2025. This work presents robust machine-learning approaches designed to safeguard IoT environments from DDoS attacks, strengthening the resilience of connected systems.

