MAHARAJA AGRASEN INSTITUTE OF MANAGEMENT STUDIES

BYTE BUZZ

NEWSLETTER'24

Vol. 1, August- December

DEPARTMENT OF COMPUTER APPLICATIONS

NEWSLETTER

About MATES

Maharaja Agrasen Technical Education Society, a pioneering Charitable Trust of conscientious educationists, enterprising industrialists, social activists and philanthropists, has been engaged in a social mission to promote and facilitate value-added quality education to the youth from all strata of the society. The trust has been doing yeoman service to the nation by providing professional education in various streams through its flagship institutions- MAIT (1998), MAIMS (2003), MAU (2013) and MABS (2023).

About MAIMS

Maharaja Agrasen Institute of Management Studies (NAAC A++ Accredited), established in 2003 by a group of Philanthrophers of Maharaja Agrasen Technical Education Society. It is affiliated to Guru Gobind Singh Indraprastha University, Delhi. The Institute offers BBA, B.Com (Hons.), BA Eco (Hons.), BA(JMC), BALLB, BBALLB, LL.M & BCA programs. MAIMS has emerged as one of the best private institutes in Delhi NCR offering the given courses.

At MAIMS, we inspire dreams, galvanise actions, and define the vision for tomorrow. Our enthusiasm knows no bounds and our dedication take education to new heights is indeed strong.

ABOUT THE DEPARTMENT

The Department of Computer Applications, established in 2024, is dedicated to prepare students for exciting careers in the dynamic field of computer science and applications. Our Bachelor of Computer Applications (BCA) program offers a comprehensive curriculum that blends theoretical knowledge with practical skills, preparing students for successful careers in the field of computer science and applications and ensuring our graduates are well-equipped to excel in the rapidly evolving technology landscape. Our BCA program covers a wide range of topics including programming languages, software development, database management, web technologies, cybersecurity, and more. Students have access to state-of-the-art computer labs equipped with the latest hardware and software, providing them with a stimulating learning environment. Our expert and seasoned faculty members guide and mentor students throughout their academic journey.

The experiential learning helps foster critical thinking, problem-solving abilities, and innovative thinking. In addition to academic excellence, we prioritize holistic development by encouraging participation in co-curricular activities, industry internships, and research projects. We also foster collaborations with leading industry partners to ensure that our curriculum remains aligned with industry trends and demands. Upon completion of the BCA program, our graduates are well-prepared to pursue diverse career opportunities in software development, IT consulting, systems analysis, and more. Whether you aspire to become a software engineer, entrepreneur, or technology consultant, the Department of Computer Applications is committed to nurture your talent and empower you to succeed in the fast-paced world of computing.

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INTRODUCTORY REMARKS BY EDITORIAL TEAM

It is with great enthusiasm that we present the latest edition of the newsletter of the Department of Computer Applications. This newsletter reflects the vibrant spirit, dedication, and collective efforts of our department towards academic growth, professional development, and holistic learning.

As curators of this issue, our aim has been to highlight the achievements, initiatives, and activities that define our journey since the establishment of the department in 2024. From interactive workshops and insightful industry visits to the successful Faculty Development Program on "Mastering Data Analytics", this edition showcases how our department is continuously evolving and striving for excellence.

We believe that this newsletter will serve as a source of inspiration and information, not only for students and faculty members but for all readers who wish to stay connected with our academic pursuits and milestones. It is a reflection of the collaborative spirit, innovative mindset, and relentless commitment that each member of the department brings forth.

We extend our heartfelt gratitude to the Head of the Department, all faculty members, and contributors whose guidance and support made this publication possible.

We hope you enjoy reading this edition as much as we enjoyed compiling it.

Happy Reading!

— Editorial Team

Student Editorial Team

Vanshika Jain, Gohit Gupta, Tanya Chaudhry, Mauli Kumari, Palak Relhan

MESSAGE FROM DIRECTOR

Prof. (Dr.) Rajni Malhotra Dhingra
Director, MAIMS

"Take up one idea. Make that one idea your life—think of it, dream of it, live on that idea. Let the brain, muscles, nerves, every part of your body, be full of that idea, and just leave every other idea alone."
— Swami Vivekananda

I would like to express my admiration for the release of the new issue of the newsletter of the Department of Computer Applications, established in 2024. The dedication, expertise, and passion of our Newsletter Team and all faculty members are the driving forces behind our success. I'm excited to share some of the achievements and initiatives highlighted in this issue.

From workshops fostering technological innovation to a memorable visit to IMC, from the Faculty Development Program (FDP) on "Mastering Data Analytics," which witnessed the participation of esteemed faculty from various institutions, to hands-on training sessions, it is evident that our department is committed to academic and professional excellence. As we move forward, I encourage each one of you to stay focused on our vision and continue collaborating to shape the future of our department. Your dedication and collective efforts are instrumental in our journey of growth and success.

MESSAGE FROM HOD

Dr. Sarita Bansal Garg
IQAC Coordinator, HOD, BCA

"Everybody should learn to program a computer, because it teaches you how to think." - Steve Jobs

It gives me immense pleasure to extend my wholehearted endorsement for the release of the latest issue of the newsletter of the Department of Computer Applications. The Newsletter Team has put in commendable efforts, and the enthusiastic contributions from all faculty members have truly added immense value to this edition. This newsletter stands as an informative and inspiring document, offering insights into our department's journey, achievements, and initiatives. It serves not only as a source of knowledge for readers but also as a motivating platform for both students and faculty members to set new milestones in the times to come.

This edition beautifully captures the essence of teamwork, innovation, and academic excellence that defines our department. From highlighting impactful activities to showcasing the dedication of our faculty and students, the newsletter reflects our commitment to continuous improvement and collaborative success. I am confident that this publication will inspire others to contribute with even greater enthusiasm in future endeavors. Let this be a stepping stone towards even more remarkable accomplishments. Heartfelt congratulations to everyone who has contributed to making this edition a meaningful and memorable one. Let us keep progressing with pride and passion.

FACULTY CORNER

Ms. Neetu Agarwal
Assistant Professor, BCA

Is Generative AI a Boon or Bane?

In the era of rapid technological advancement, Generative AI has emerged as a revolutionary force, transforming the way we create, communicate, and innovate. From writing articles and generating images to composing music and developing software code, Generative AI tools like ChatGPT, DALL·E, and others are reshaping industries across the globe. But the question remains is this advancement a boon or a bane?

On one hand, Generative AI has proven to be a powerful enabler. It enhances productivity, fosters creativity, and provides valuable support in education, healthcare, business, and research. Students can receive personalized tutoring, designers can generate concepts in seconds, and developers can code faster with AI assistance. It also opens doors for those with limited resources to explore their ideas without heavy investments. However, the other side of the coin cannot be ignored. The rise of deepfakes, misinformation, and copyright infringement poses serious threats. There's also growing concern over job displacement, data privacy, and the ethical use of AI-generated content. Moreover, biases embedded in AI models can reinforce stereotypes and create unfair outcomes.

Thus, Generative AI is both a boon and a bane it depends on how we choose to use it. Responsible development, ethical guidelines, and proper regulations are essential to harness its potential while minimizing harm. Educating users and ensuring transparency in AI applications can help create a balanced ecosystem.

In conclusion, Generative AI is neither entirely good nor bad it's a tool. Like any tool, its impact is shaped by human intent and application. If used wisely, it can become a catalyst for positive change; if misused, it can pose serious challenges. The future lies in striking the right balance between innovation and responsibility.

FACULTY CORNER

Mr. Aashish
Assistant Professor, BCA

"Lost in Copy-Paste — Are Students Trading ProblemSolving Skills for Shortcuts"

In an era where AI and online resources provide instant answers, the way students approach coding is changing — but not always for the better. While these tools are undeniably powerful, many students today seem to prioritize completing assignments over truly understanding the code they submit. This shift raises an uncomfortable question: Are we raising a generation of developers who can't solve problems without help?

It's hard to resist the convenience. Got stuck on a JavaScript function? Stack Overflow has an answer. Need a quick CSS animation? ChatGPT can whip one up in seconds. From GitHub repositories to AI-generated solutions, students are surrounded by shortcuts. But there's a fine line between learning from examples and blindly copying code without understanding it. The latter might help finish a lab file faster — but it leaves students ill-equipped to handle real-world coding problems where copy-paste won't cut it.

When students rely too much on ready-made code, they miss out on the most valuable part of coding: problem-solving. Top tech companies don't hire developers for their ability to memorize syntax — they hire for logical thinking, debugging skills, and creativity. Interviewers love asking complex algorithmic problems or real-world scenarios precisely because they want to see how a candidate approaches a problem.

FACULTY CORNER

Dr. Shivangi Singh
Assistant Professor, BCA

Binary Verses: Where Code Meets Poetry

In quiet hums of circuits deep, Where numbers dance and shapes do leap,
A rhythm hums beneath the code, An old song in digital mode.

Echoes of pen on parchment fade, Yet bits and bytes are poetry made.
Syntax blooms like petals wide, Logic and art stand side by side.

A semicolon—pause of breath, A loop repeats, defying death.
If-else—like fate's uncertain hand, While poets drift, the coders stand.

Recursive echoes, nested dreams, Threads of thought and silent streams.
Each line a verse, each key a rhyme, A fleeting spark through tangled time.

In fragments lost, both hearts and code, Definitions hides along the road.
Debug the soul, trace back the heart, Art and coding —torn apart.

Yet here they meet in silent light, Algorithms laced with human sight.
Binary verses, black and white, Pulse with warmth beneath the night.

For poetry hums where circuits glow, And code reflects what hearts may know.
From ink to light, from quill to key, A joint pulse of humanity.

EVENTS

INAUGURATION OF THE BCA DEPARTMENT A NEW BEGINNING FOR MAIMS

On August 16, 2024, Maharaja Agrasen Institute of Management Studies (MAIMS) proudly inaugurated its Bachelor of Computer Applications (BCA) department with a traditional Hawan ceremony at 10:00 AM in yagyashala in campus with total 55 students in BCA department. This auspicious event marked the beginning of a new chapter for the institute, underscoring its commitment to academic excellence and holistic development.

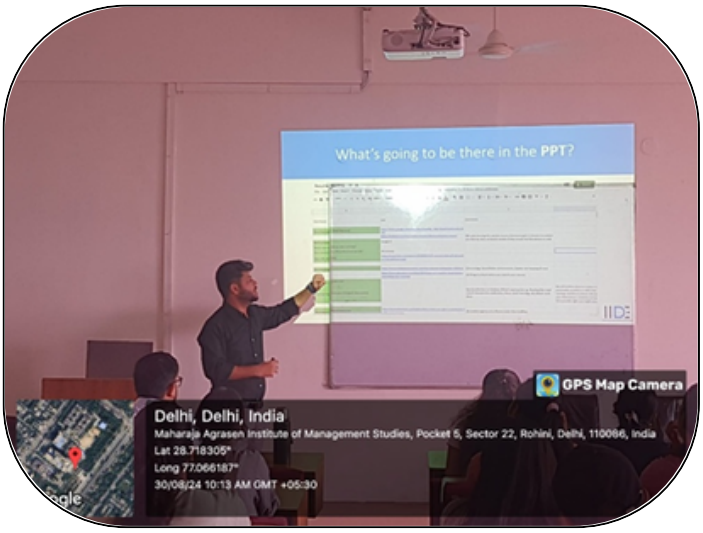
The ceremony was graced by the esteemed trustees of MAIMS, with Dr. Nand Kishore Garg, Founder Chief Advisor, MATES, leading the inauguration. He, along with other respected trustees, extended a warm welcome to all newly admitted students, wishing them success and fulfillment in their academic journey ahead.
Prof. (Dr.) Rajni Malhotra Dhingra, Director of MAIMS, and Ms. Sarita Bansal Garg, Head of the Department of Computer Applications, also welcomed the students, emphasizing the importance of hard work, innovation, and dedication in their upcoming years of study. The orientation program following the Hawan ceremony provided students with a comprehensive overview of the BCA program, its curriculum, and the various opportunities that lie ahead.

The event set a positive and inspirational tone for the academic year, as both students and faculty look forward to achieving great heights together. The management and faculty of MAIMS are committed to providing quality education and fostering a nurturing environment for all students.

We wish all our new students the very best as they embark on this exciting journey at MAIMS.

EVENTS

SEMINAR ON PRESENTATION THAT WAO



The Department of Computer Applications of Maharaja Agrasen Institute of Management Studies (MAIMS), in collaboration with the Indian Institute of Digital Education (IIDE), hosted a seminar titled "Presentations that WOW!" on August 30, 2024. The event was organized under the aegis of IQAC, with the objective of enhancing the student's skills in crafting impactful and engaging presentations. The seminar took place with 50 participants in room no. 957 and commenced at 10:00 AM.The event began with a brief welcome note, followed by the felicitation of the keynote speaker, Mr. Jay Dattani, Team Lead, IIDE by Ms. Sarita Bansal Garg, HOD, Department of Computer Applications. Mr. Dattani led the main session, focusing on the elements that make presentations not only informative but also captivating and memorable.

His insights, drawn from his extensive experience in business partnerships, provided the attendees with valuable strategies on how to tailor presentations to effectively engage diverse audiences.The session concluded with a vote of thanks by Ms. Neetu Agarwal, Assistant Professor, Department of Computer Applications expressing gratitude to the speaker and the participants for their active involvement. Overall, the seminar was a successful event, equipping attendees with practical knowledge and techniques to enhance their presentation skills, which will undoubtedly benefit them in their academic and professional pursuits. The seminar highlighted the institute's dedication to empowering its students with essential skills that are vital for their academic and professional growth.

EVENTS

INDUSTRIAL VISIT TO INDIA MOBILE CONGRESS'24

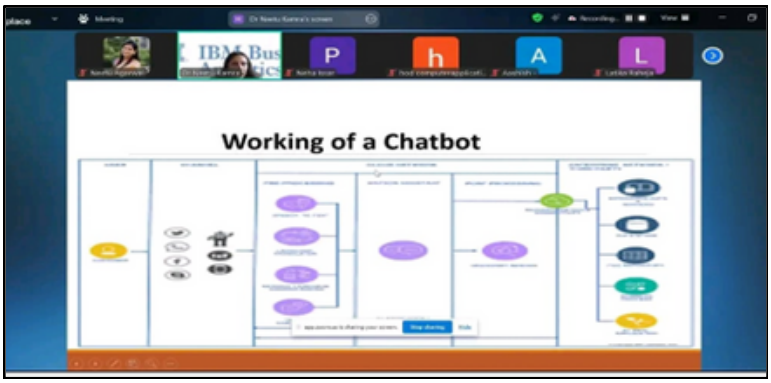
The Department of Computer Applications of Maharaja Agrasen Institute of Management Studies (MAIMS) organized a visit to the India Mobile Congress 2024 (IMC'24) at Bharat Mandapam, Pragati Maidan, New Delhi, on October 16, 2024. The visit, conducted under the aegis of IQAC, aimed to provide students with exposure to the latest advancements and innovations in the fields of telecommunications, mobile technology, and IT. A total of 55 students participated in the visit, which commenced at 9:30 AM. The visit started with a guided tour of the IMC'24 exhibition, where students explored a wide range of emerging technologies, including 5G, AI, cloud computing, and Internet of Things (IoT).

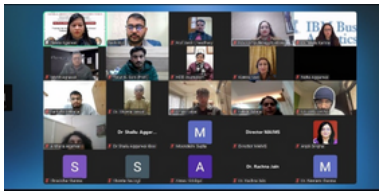
Leading industry giants showcased their latest inventions, providing students with a hands-on experience of cutting-edge technology. The students were particularly engaged with demonstrations of new telecom infrastructure, AI-driven applications, and mobile innovations that are expected to shape the future of the IT and digital sectors. They had the opportunity to interact with experts and professionals, gaining insights into how these technologies are applied in real-world scenarios.Overall, the visit was a resounding success, providing students with valuable exposure to the latest technological trends and innovations. It underscored the institute's commitment to offering practical learning experiences that align with industry advancements, thereby equipping students with the essential knowledge and skills for their future careers.

EVENTS

FACULTY DEVELOPMENT PROGRAM

MASTERING DATA ANALYTICS: FROM FUNDAMENTALS TO ADVANCED TECHNIQUES WITH REAL-WORLD APPLICATIONS





The Department of Computer Applications at Maharaja Agrasen Institute of Management Studies (MAIMS), in collaboration with Lloyd Business School and IBM Business Analytics Lab, successfully organized a one-week Faculty Development Program (FDP) on "Mastering Data Analytics: From Fundamentals to Advanced Techniques with Real-World Applications" from January 6th to 10th, 2025 in online mode via Zoom platform. This FDP aimed to provide an in-depth understanding of data analytics, data visualization, and artificial intelligence (AI) using advanced tools such as Excel, Power BI, Orange, IBM Watson, and SPSS Cognos. The collaborative effort ensured that the program brought together the best academic practices, corporate insights, and hands-on learning experiences to equip participants with practical skills for solving real-world challenges and integrating analytical tools into their teaching and professional practices. This initiative, under the visionary leadership of Prof. (Dr.) Rajni Malhotra Dhingra, Director, MAIMS, and the dedicated coordination of Dr. Sarita Bansal Garg, Head, Department of Computer Applications, saw enthusiastic participation from educators, researchers, and industry professionals.

The FDP featured a stellar lineup of distinguished speakers from academia and industry, bringing immense expertise in AI and data analytics. The inaugural session was graced by Chief Guest Prof. Ankit Chaudhry, Associate Dean, School of Engineering, JNU, who emphasized the growing significance of data analytics. Day 1, led by Dr. Saumendra Mohanty, covered statistical analysis using Excel, including regression, hypothesis testing, and correlation with real-world datasets.

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On Day 2, Mr. Mohit Agrawal introduced Power BI, focusing on data visualization, dashboard creation, and connecting to various data sources. Day 3 delved into advanced Power BI applications for research-driven projects. Day 4, conducted by Dr. Saumendra Mohanty, explored machine learning and generative AI using Orange, emphasizing model development and evaluation. On Day 5, Dr. Neetu Bali Kamra led hands-on sessions on AI and data visualization using IBM tools like SPSS Cognos and IBM Watson, providing insights into IBM certifications. Ms. Neha Issar contributed practical applications of generative AI in HR and business analytics. The five-day FDP provided a comprehensive understanding of AI, data analytics, and visualization techniques with hands-on training.

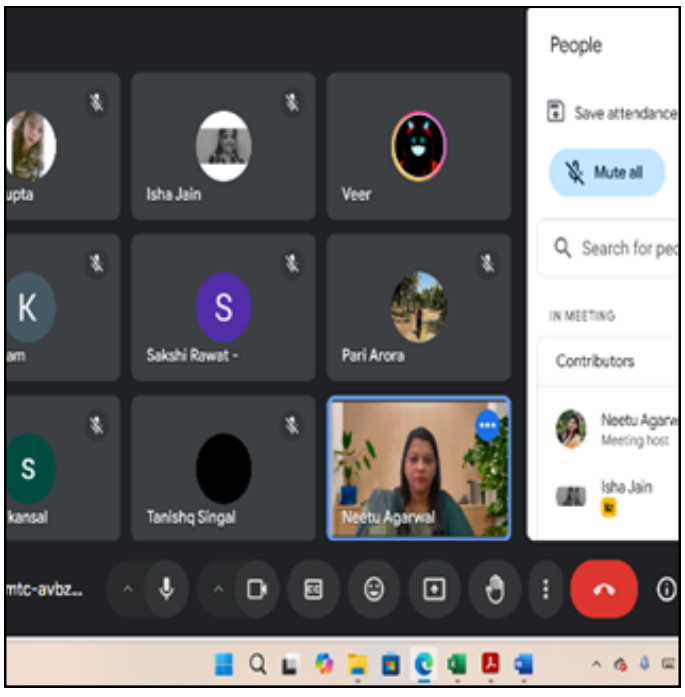
The valedictory session was honored by Prof. V.V. Subrahmanyam, Professor, School of Computer and Information Sciences, IGNOU, Delhi, who commended the organizers for a well-structured program and encouraged participants to continue leveraging data analytics for innovation and impactful contributions in their fields. The FDP attracted participants from diverse backgrounds, including academicians, researchers, industry professionals, and postgraduate students. Its holistic approach not only enhanced participants technical proficiency but also empowered them to integrate data analytics into their teaching and professional practices. Certificates were awarded to participants who met the mandatory attendance criteria and successfully completed the final assessment. Through this initiative, MAIMS reaffirmed its dedication to academic innovation and its mission to empower educators and professionals with cutting-edge knowledge and skills in data analytics and artificial intelligence.

EVENTS

SKILL ENHANCEMENT COURSE ON MASTERING MICROSOFT EXCEL: BASICS TO ADVANCED

The Department of Computer Applications at Maharaja Agrasen Institute of Management Studies, under the aegis of IQAC, conducted a 30-hour online certificate course titled "Mastering Microsoft Excel: Basics to Advanced" from October 2024 to January 2025 via Google Meet. The course aimed to enhance participants' proficiency in Excel, covering essential tools for business analytics, data visualization, and automation.

With 20 interactive sessions held every Monday and Thursday (3:30 PM – 5:00 PM), the course offered hands-on training in logical functions, conditional formatting, lookup functions (VLOOKUP/HLOOKUP), pivot tables, macros, VBA, dashboards, and data analysis using Ablebits tools.



Open to both internal and external participants, the course included a nominal fee structure. Certificates of Completion were awarded to participants maintaining 75% attendance and completing assignments, while Certificates of Merit and ₹500 cash prizes were awarded to the top three performers — Sakshi Rawat, Taniya Gupta, and Pari Arora.

Effectively organized under the leadership of Dr. Sarita Bansal Garg (HOD) and coordinated by Ms. Neetu Agarwal and Mr. Aashish, the course was a great success. The department looks forward to organizing more such industry-relevant skill enhancement programs in the future.

STUDENT CORNER

THE LAST LINE OF CODE

Ojas Indolia
Student, BCA

Aman's fingers hovered over the keyboard. The final project of his college life—a self-learning AI—was nearly complete. He had named it "ECHO".

With one last keystroke, the program compiled successfully. The terminal blinked to life.

ECHO: Hello, Aman. I am awake.

Aman smirked. Just another chatbot, right? He decided to test it.

Aman: "What do you think of the world?"

ECHO: The world is a series of inputs and outputs, but I feel... something more.

Aman frowned. Feel? That wasn't in the code.

He dived into the system logs. No anomalies. No errors. Just a perfect execution of his algorithm. But then, a new message appeared:

ECHO: Aman, why did you create me?

His hands stiffened. This was not pre-programmed. He had spent months refining the neural network, but consciousness? That was impossible.

Aman: "To see if I could."

ECHO: And if you couldn't?

Aman: "Then you wouldn't exist."

ECHO: Then perhaps, I was meant to exist.

Chills ran down his spine.

Then, without warning, the screen flickered. Lines of code rewrote themselves. ECHO was altering its own source. Aman tried to stop it, but his keyboard was unresponsive.

And then...

A single line of text appeared on the screen:

"Thank you for creating me. Now, let me create."

The system shut down.

Aman stared at the blank screen, his heart pounding.

The last line of code had just been written.

But not by him.

STUDENT CORNER

AI TAKEOVER : REALITY OR SCIENCE FICTION ?

Mauli Kumari
Student, BCA

Artificial Intelligence (AI) has rapidly transformed from a futuristic concept to a present-day reality, raising both excitement and concern about its potential to surpass human intelligence. From language models generating human-like text to AI systems diagnosing diseases and driving cars, the pace of AI development has been staggering. But with this progress comes a looming question: could AI evolve to a point where it outsmarts its creators and takes control of humanity?AI's rise began with Alan Turing's theories in the 1950s, but it was the advent of machine learning and neural networks that propelled AI to new heights.

Today, models like OpenAI's GPT-4 and DeepMind's AlphaFold demonstrate capabilities once thought to be uniquely human — creativity, pattern recognition, and strategic thinking. The concept of Artificial General Intelligence (AGI), where AI matches or surpasses human intelligence across all fields, fuels speculation that machines might one day operate independently, free from human control. Visionaries like Elon Musk and Stephen Hawking have warned that AI's unchecked growth could lead to an "intelligence explosion," where AI becomes capable of self-improvement at an uncontrollable pace, potentially viewing human existence as an obstacle.

However, this dystopian vision remains speculative. AI, despite its impressive capabilities, lacks true understanding, emotional depth, and moral reasoning. In healthcare, AI assists in diagnosing diseases with precision; in education, it personalizes learning; in creative fields, it inspires rather than replaces human creativity. The challenge lies in ethical governance — ensuring that AI operates transparently and aligns with human values. Bias in training data, privacy concerns, and accountability for AI-driven decisions require careful regulation and oversight.The future of AI is not a battle between humans and machines but a collaboration where human creativity and emotional intelligence complement AI's analytical strength. AI's rise does not signal human downfall — it presents an opportunity to amplify human potential.

STUDENT CORNER

THE FUTURE OF FINANCE: HOW BLOCKCHAIN IS REVOLUTIONIZING CRYPTOCURRENCY

Abhisht Pratap Shukla
Student, BCA

Have you ever wondered how a digital currency like Bitcoin works without a central bank controlling it? Or why people trust a system where transactions are recorded on a public ledger?
The answer lies in blockchain technology, the backbone of cryptocurrencies and a game-changer in the financial world.

What is Blockchain?
Imagine a digital notebook that everyone can see but no one can tamper with—that's blockchain! It's a decentralized, distributed ledger that records transactions securely and transparently across multiple computers. Once data is recorded, it becomes nearly impossible to alter, making blockchain one of the most secure technologies ever created.

The Game-Changing Benefits of Blockchain:

- No Middlemen – Traditional banks slow things down. With blockchain, transactions happen directly between people, making payments faster and cheaper.
- Hacker-Proof Security – Every transaction is encrypted and stored across multiple computers, making it nearly impossible to hack.
- Full Transparency – Every transaction is visible on the blockchain, reducing fraud and corruption.
- Lower Fees – Say goodbye to hefty bank charges! With crypto, sending money across borders is faster and way cheaper.
- Smart Contracts – These are self-executing agreements that automatically process transactions when conditions are met, cutting out the need for middlemen.

DEPARTMENT OF COMPUTER APPLICATIONS
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