



# KONGU ARTS AND SCIENCE COLLEGE

(AUTONOMOUS)

DEPARTMENT OF COMPUTER SCIENCE (UG)



## NEWS CORNER

Date: 01.09.25

### “AI vs. Workforce”

Artificial Intelligence (AI) is rapidly reshaping the global workforce. Recent studies show that entry-level and routine jobs are the most vulnerable. Tasks like data entry, basic analysis, and customer support are being automated. Companies are adopting AI to reduce costs and increase efficiency. This shift is creating uncertainty among early-career professionals. Researchers from Stanford highlight a clear pattern of job replacement. AI tools can now draft reports, handle scheduling, and even code. While some jobs disappear, new roles in AI management are emerging. Tech firms argue that reskilling programs can bridge the gap. Governments worldwide are discussing policies to protect workers. The impact is more visible in finance, IT, and customer service. Workers in creative fields also feel pressure from generative AI. Despite fears, wages have not yet seen a steep decline. Experts warn that the real effects may unfold gradually. AI adoption is uneven, with some sectors slower to change. Developing countries face greater risks due to fewer safety nets. Unions and advocacy groups are demanding stronger worker protections. Analysts believe hybrid human-AI collaboration is the future. The key challenge lies in balancing innovation with employment. As AI grows, society must redefine the meaning of work.

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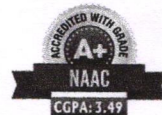


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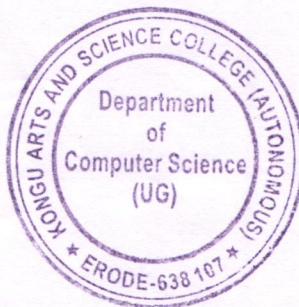
Date: 2/9/25

### *Cloud-Based Ransomware on the Rise*

Cybersecurity experts are warning about a new wave of ransomware attacks. Hackers are shifting focus from traditional endpoints to cloud platforms. Microsoft recently identified a group called Storm-0501 behind such threats. These attackers exploit weak cloud configurations to gain access. Once inside, they encrypt critical business data stored online. The shift highlights growing dependence on cloud services worldwide. Organizations now face risks even without local system breaches. Cloud ransomware attacks can halt entire business operations. Victims often receive demands for cryptocurrency payments. Attackers take advantage of remote work and hybrid setups. Healthcare, finance, and education sectors are among top targets. Experts note that many firms still underestimate cloud vulnerabilities. Insufficient access controls make attacks easier to execute. Security patches and monitoring tools are often overlooked. Cloud service providers urge clients to adopt zero-trust policies. Data backups in separate, secure locations are strongly advised. AI-powered detection tools are being developed to counter threats. Cyber insurance companies are raising premiums due to rising cases. Analysts predict cloud ransomware will grow more sophisticated. The message is clear: cloud security can no longer be ignored.

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## DEPARTMENT OF COMPUTER SCIENCE (UG)

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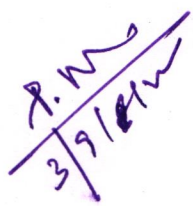
#### Robotic Process Automation

Robotic Process Automation (RPA) is transforming business operations by automating repetitive, rule-based tasks that were traditionally performed by humans. RPA software robots, or “bots,” can handle activities such as data entry, invoice processing, and customer support with high accuracy and speed. Organizations are adopting RPA to increase efficiency, reduce errors, and lower operational costs. In finance, RPA is used to reconcile accounts, process transactions, and generate reports automatically. Human resources departments leverage bots for onboarding, payroll management, and compliance tracking. Customer service teams employ RPA to respond to common queries and route tickets, improving response times. Integration with AI and machine learning enables bots to handle more complex decision-making tasks. RPA is particularly valuable in industries with high-volume, repetitive processes like banking, insurance, and healthcare. Cloud-based RPA solutions are allowing businesses to scale automation efforts without heavy infrastructure investments. Security and governance are essential to ensure that automated processes adhere to organizational policies and data privacy regulations. Continuous monitoring and analytics help optimize bot performance and identify areas for further automation. Employees are increasingly collaborating with bots, focusing on higher-value and strategic tasks rather than routine work. Companies are investing in RPA training programs to equip staff with skills to manage and oversee automation workflows. Challenges such as process standardization and change management must be addressed for successful RPA deployment. With growing adoption, RPA is set to play a central role in digital transformation and operational efficiency across industries.

  
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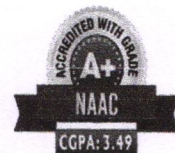
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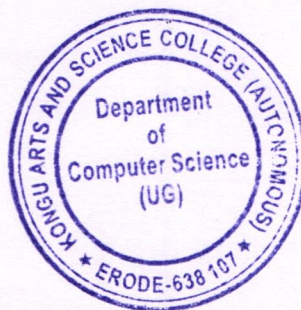
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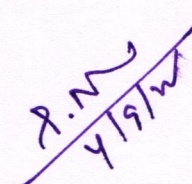
#### Mobile Application Development Trends

Mobile application development continues to evolve rapidly, driven by advancements in technology and changing user expectations. Cross-platform development frameworks like Flutter and React Native are gaining popularity for building apps that work seamlessly on multiple devices. Progressive Web Apps (PWAs) are emerging as a cost-effective alternative to native apps, offering offline access and faster load times. The integration of artificial intelligence and machine learning is enabling personalized user experiences, chatbots, and predictive features. Augmented reality (AR) and virtual reality (VR) are being incorporated into mobile apps for gaming, retail, and educational purposes. 5G networks are enhancing app performance by enabling faster downloads, real-time streaming, and cloud-based functionalities. Security and privacy features are becoming more important, with end-to-end encryption and biometric authentication gaining traction. Mobile apps are increasingly leveraging Internet of Things (IoT) connectivity for smart homes, wearables, and industrial applications. Cloud integration allows apps to store and process data efficiently, improving scalability and collaboration. Voice search and voice-controlled apps are growing due to the popularity of virtual assistants like Siri and Google Assistant. App developers are focusing on intuitive UI/UX designs to retain users and reduce churn rates. Mobile payment and digital wallet functionalities are becoming standard features in retail and financial apps. Health and fitness apps are expanding with wearable device integration and real-time monitoring. Continuous updates and agile development practices are essential to keep apps competitive in dynamic markets. With these trends, mobile application development is poised to deliver smarter, faster, and more engaging experiences for users worldwide.

  
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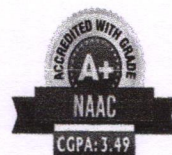
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Date: 8/9/25

### E-commerce Technologies & Payment Security

E-commerce technologies are rapidly evolving, reshaping how businesses sell products and services online while ensuring secure payment systems. Online marketplaces are leveraging AI and machine learning to personalize shopping experiences and recommend products based on user behavior. Mobile commerce is growing, with apps and responsive websites enabling seamless shopping on smartphones and tablets. Payment gateways and digital wallets are facilitating fast, convenient, and secure transactions across multiple currencies. Encryption technologies and Secure Socket Layer (SSL) protocols are critical for protecting sensitive customer information during online payments. Two-factor authentication and biometric verification are increasingly used to prevent unauthorized access to accounts. Blockchain technology is being explored to enhance transparency and security in financial transactions. E-commerce platforms are integrating fraud detection systems that monitor suspicious activities in real time. Cloud computing allows scalable, reliable infrastructure to handle high volumes of transactions during peak shopping periods. AI-powered chatbots and customer support tools improve service and reduce response times. Augmented reality features are enhancing the shopping experience by allowing virtual product trials. Regulatory compliance, including PCI DSS standards and GDPR, ensures businesses maintain secure handling of customer data. Subscription-based models and recurring billing systems are supported through automated and secure payment processes. Secure APIs enable smooth integration between e-commerce sites, payment processors, and third-party services. With ongoing innovation, e-commerce technologies and payment security continue to drive trust, convenience, and growth in the digital retail landscape.

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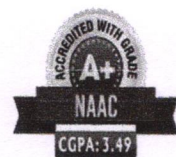
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## DEPARTMENT OF COMPUTER SCIENCE (UG)

### NEWS CORNER

Date: 9/9/25

### Large Language Models Engineering & Optimization

Large Language Models (LLMs) are undergoing rapid optimization as tech companies push for faster, more efficient deployment across diverse platforms. Advancements in model compression, including pruning, distillation, and quantization, are allowing powerful models to run on smaller hardware without significant loss in accuracy. Researchers are developing energy-efficient training pipelines that reduce both cloud costs and environmental impact, while modular fine-tuning workflows are enabling quicker customization for specialized industries. Distributed training frameworks are scaling model size limits, and improved inference optimization is making real-time AI more practical for global users. Innovations in memory-efficient attention mechanisms are addressing long-context processing bottlenecks, and open-source communities continue to release competitive, highly optimized frameworks. Hardware makers are also introducing chips built specifically for LLM workloads, and AI safety teams are releasing new benchmarks to ensure these optimized models remain reliable. With enterprise demand for smaller, private models increasing, analysts predict that optimization will remain central to sustainable and accessible AI adoption worldwide.

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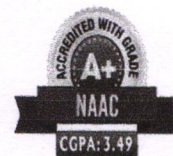
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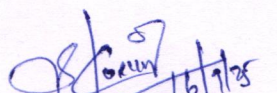
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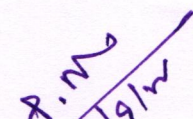
### Cloud Computing & Virtualization

Cloud computing and virtualization are rapidly transforming the global tech landscape as organizations accelerate digital transformation efforts. Virtualization continues to improve efficiency by allowing multiple environments to run on a single physical server, while major cloud providers expand data centers to meet growing demand. Analysts note that hybrid cloud models are becoming the preferred choice for enterprises seeking flexibility, with virtual machines and containers now essential tools for modern development. Many companies are migrating legacy systems to cloud platforms to reduce operational costs, supported by stronger security features that build trust in remote infrastructure. Virtualization is helping IT teams optimize performance with minimal hardware investment, and multi-cloud strategies are gaining attention as a way to manage risks. At the same time, cloud-based AI and analytics services are fueling innovation across industries, and providers are introducing greener, energy-efficient solutions. The rise of serverless computing is changing how developers build applications, while virtual desktop infrastructure grows alongside permanent remote work trends. With regulatory bodies updating compliance standards to address emerging risks, cloud computing and virtualization continue to shape the future of enterprise IT.

  
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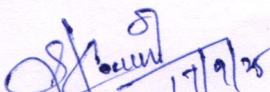
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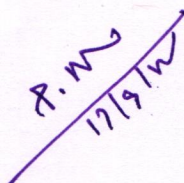
Date: 17/9/25

#### Cybersecurity Threats & Solutions

Cybersecurity threats are escalating worldwide as cybercriminals adopt more advanced techniques to breach systems and steal sensitive data. Ransomware attacks continue to rise, targeting hospitals, banks, and government institutions with devastating financial and operational impacts. Phishing campaigns are becoming more sophisticated, often impersonating trusted organizations to trick users into revealing credentials. Experts warn that unsecured IoT devices are creating new entry points for attackers across homes and industries. Meanwhile, cloud environments face growing risks due to misconfigurations and weak access controls. In response, companies are investing heavily in next-generation firewalls and intrusion detection systems to strengthen defenses. Multi-factor authentication is becoming a standard requirement to reduce unauthorized access. Artificial intelligence-powered security tools are helping detect anomalies and respond to threats in real time. Cybersecurity awareness training is being expanded to prevent human-error-based breaches. Encryption technologies are also being upgraded to protect data both at rest and in transit. Zero-trust architecture is gaining widespread adoption as organizations shift away from perimeter-based security models. Security teams are conducting regular penetration testing to identify vulnerabilities before attackers do. Governments are updating cybersecurity regulations to ensure stronger compliance standards.

  
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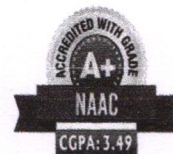
  
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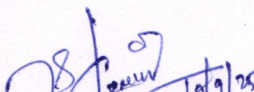
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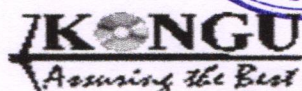
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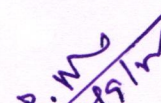
Date: 18/9/25

#### Internet of Things (IoT) Ecosystems

The Internet of Things (IoT) ecosystem is expanding rapidly as connected devices become integral to daily life, industry operations, and smart city development. Manufacturers are introducing more intelligent sensors capable of real-time monitoring and automation across various sectors. Smart home devices such as thermostats, security cameras, and lighting systems continue to gain popularity due to their convenience and energy-saving capabilities. In the industrial sector, IoT-enabled machinery is improving productivity through predictive maintenance and automated performance tracking. Cities are adopting IoT technologies to optimize traffic systems, waste management, and public safety. However, experts warn that the rapid growth of connected devices is increasing concerns about data privacy and cybersecurity. Many IoT products still lack robust security features, leaving networks vulnerable to unauthorized access. To address these risks, developers are integrating stronger encryption and improved authentication methods. Cloud platforms are also being enhanced to support the massive volume of IoT-generated data. Edge computing is emerging as a critical solution for reducing latency and improving processing efficiency. Healthcare organizations are using IoT devices to support remote patient monitoring and telemedicine services. In agriculture, smart sensors are helping farmers track soil conditions and crop health with greater accuracy.

  
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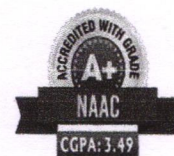


  
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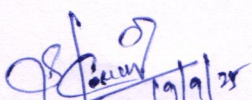
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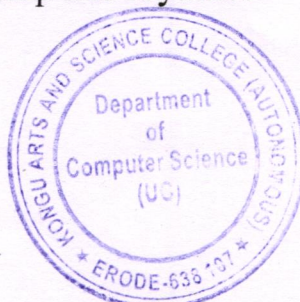
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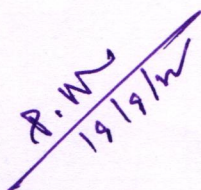
Date: 19/9/25

#### Blockchain & Distributed Ledger Technology

Blockchain and distributed ledger technology (DLT) are gaining momentum as industries seek more transparent, secure, and efficient ways to manage digital transactions. Financial institutions are leading adoption, using blockchain to streamline cross-border payments and reduce processing times. Governments are exploring DLT-based systems for land registries, identity management, and public service records. Supply chain companies are leveraging blockchain to improve traceability and prevent counterfeit goods from entering global markets. The rise of tokenization is enabling assets such as real estate and art to be traded digitally with greater liquidity. Experts note that smart contracts are transforming business operations by automating agreements without the need for intermediaries. Meanwhile, blockchain networks continue to face challenges related to scalability and high energy consumption. Developers are addressing these issues through innovations like proof-of-stake and layer-two scaling solutions. Cybersecurity researchers highlight that blockchain's decentralized structure offers strong protection against tampering and unauthorized data changes. Major corporations are forming partnerships to create interoperable blockchain platforms for improved data sharing. Regulators worldwide are working to create clearer frameworks for digital currencies and blockchain applications. The healthcare sector is testing DLT to secure patient records and improve data accessibility. Additionally, the gaming and entertainment industries are adopting blockchain for digital ownership and royalties.

  
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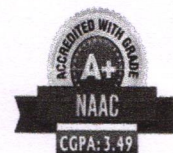
  
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Date: 20/9/25

### Big Data Analytics & Data Mining

Big Data Analytics and Data Mining are becoming essential tools for organizations aiming to make smarter, data-driven decisions. Companies across industries are collecting massive amounts of information from customer interactions, social media, and connected devices. Analysts report that advanced data mining techniques are helping businesses uncover hidden patterns that improve marketing strategies and customer engagement. In the healthcare sector, big data is enabling predictive models that assist in early disease detection and personalized treatment plans. Retailers are using analytics to optimize inventory management and forecast demand more accurately. Financial institutions rely on data mining to detect fraudulent transactions in real time. As data volumes grow, cloud-based analytics platforms are gaining popularity for their scalability and processing power. Machine learning algorithms are playing a larger role in automating data analysis and delivering faster insights. However, experts warn that data privacy concerns remain a critical challenge as organizations handle sensitive information. Regulations like GDPR and other data protection laws are pushing companies to adopt stronger governance frameworks. Data quality management is also becoming a priority to ensure reliable outcomes. Educational institutions are incorporating big data tools into research and administrative planning. Meanwhile, real-time analytics is emerging as a must-have capability for businesses in competitive markets.

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