## **Emerging Technologies in the Law Field**

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### ABSTRACT

Emerging technologies are rapidly transforming the legal field in areas like document review, contract management, and client interaction, offering increased efficiency and access to justice. From artificial intelligence to blockchain, emerging technologies promise to revolutionize industries and drive innovation. More than ever, law firms are now leveraging technology advancements to increase efficiency, optimize their bottom line, and improve client satisfaction. The emerging technologies such as artificial intelligence (AI), blockchain, the Internet of Things (IoT), big data, and cloud computing are set to have a huge impact on the legal environment. They have ushered in a revolution among industries, especially the legal industry. They are reshaping the world and the practice of law at large. In this paper, we examine the impact of emerging technologies in legal practice.

KEYWORDS: technology, emerging technologies, law, law field, law enforcement

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## **INTRODUCTION**

Technology is vital in law for enhancing efficiency, accuracy, and accessibility, enabling faster research, streamlined workflows. and improved communication, ultimately benefiting both legal professionals and clients. It is driving innovation in legal services, leading to new ways of delivering legal assistance. Emerging technologies such as artificial intelligence (AI), blockchain, the Internet of things (IoT), big data, and cloud computing are reshaping industries, including the legal industry. Emerging technologies are significantly reshaping the legal landscape, creating opportunities and challenges. They automate operations, enhance workflows, and offer new perspectives through data analysis, potentially improving legal services. Artificial intelligence, for example, is revolutionizing document review and analysis by providing faster and more accurate results which has enabled lawyers to focus on more essential tasks such as advising clients.

In an industry that stands for justice and fairness, the latest technology provides lawyers and attorneys with the tools needed to uphold the rule of law, protect individual rights, and ensure access to justice for all. *How to cite this paper:* Matthew N. O. Sadiku | Paul A. Adekunte | Janet O. Sadiku "Emerging Technologies in the

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When adopted strategically and implemented right, emerging technologies transform the ways the companies in the legal industry operate daily. The concepts of legal tech and law tech are related as shown in Figure 1 [1]. Legal tech generally refers to technology solutions and innovations designed to improve and streamline various processes within the legal industry. Law tech includes technology solutions that impact the practice of law as well as the delivery of legal services.

## WHAT ARE EMERGING TECHNOLOGIES?

Technology may be regarded as a collection of systems designed to perform some function. It can help alleviate some of the challenges facing business today. Emerging technology is a term generally used to describe new technology. The term often refers to technologies currently developing or expected to be available within the next five to ten years. Any imminent, but not fully realized, technological innovations will have some impact on the status quo.

Emerging technologies are shaping our societies. They continue to affect the way we live, work, and interact with one another. Emerging technology (ET) lacks a consensus on what classifies them as "emergent." It is a relative term because one may see a technology as emerging and others may not see it the same way. It is a term that is often used to describe a new technology. A technology is still emerging if it is not yet a "must-have" [2]. An emerging technology is the one that holds the promise of creating a new economic engine and is transindustrial. ET is used in different areas such as media, healthcare, business, science, education, or defense.

The characteristics of emerging technologies include the following [3]:

- Novelty: Emerging technologies are typically new or novel, meaning they have yet to be widely adopted or used. They often represent a significant departure from existing technologies or processes.
- Potential for Disruption: Emerging technologies have the potential to disrupt existing markets, industries, or ways of doing things. They may also displace existing businesses or industries.
- Uncertainty: Because emerging technologies are still in the early stages of development, there is often a high uncertainty surrounding their future potential and impact. It can be challenging to predict how they will evolve.
- Rapid Change: Emerging technologies often evolve rapidly, with new developments and innovations emerging frequently. It can make keeping up with the latest trends and advancements challenging.
- Interdisciplinary: Emerging technologies often involve multiple disciplines or fields of study, such as computer science, engineering, and biology. They may require collaboration across different fields and industries to develop their potential fully.

Emerging technologies are worth investigating. They are responsible for developing new products or devices. As emerging technologies continue to evolve, engineering is poised for a transformative future. Emerging technologies have driven innovation and progress in today's rapidly evolving digital landscape. The collective impact of emerging technologies such as artificial intelligence, machine learning, big data, and the Internet of things is undeniably transformative. Some emerging technologies are shown in Figure 2 [4].

## LEGAL PROFESSION AND TECHNOLOGY

Law is no longer limited to litigation and corporate law. The evolving legal landscape has given rise to several non-traditional career paths for lawyers. The

legal field has evolved significantly, becoming one of the most sought-after professions worldwide. The perception of law as a career has shifted dramatically, with increasing numbers of students opting for it over traditional fields like engineering and medicine. One of the key reasons for law's growing popularity is its versatility. Law is not only about courtroom battles and litigations; it is about understanding and interpreting rules and regulations that govern every aspect of life. Entrepreneurs, corporate executives, startups, and established businesses alike rely on lawyers to navigate complex legal landscapes. Lawyers are needed not only in traditional litigation but also in arbitration, mediation, and negotiation. The growing complexity of corporate structures, the proliferation of new industries, and increasing regulatory requirements have made legal expertise indispensable. Whether you are interested in technology-driven legal services, environmental law, corporate law, or public policy, the legal profession offers a diverse range of career paths. Figure 3 shows the symbol for legal practice [5], while Figure 4 shows a group of lawyers [6].

Technology is revolutionizing the legal profession. The law and technology are constantly evolving in tandem, as new technologies create new legal challenges and opportunities. Digital transformation is sweeping every industry, and with customers moving online, law firms and legal departments have no option but to build and enrich their digital presence. In an industry that is known to be traditional in fits working methods, emerging technology trends are bringing about the necessary changes and shaping the modern legal landscape. Although the relationship between law and technology has had a rocky start, technology for lawyers and law firms is now revolutionizing how lawyers and law firms can deliver legal services. Legal technology can streamline legal research by providing access to comprehensive databases of case law, statutes, regulations, and legal commentary, all within a single online platform. Figure 5 shows the symbol of technology in law practice [7], while Figure 6 shows different components of legal technology [1]. Clients are adopting legal technology at a quicker pace than lawyers and are completing legal tasks on their own to reduce legal fees.

## EMERGING TECHNOLOGIES IN LAW

The legal landscape constantly changes due to technology, client demands, and global shifts. The legal profession is now being disrupted by the advancement of technology. Law firms are under pressure to invest in technological innovation with increased competition in the legal market. The

implementation of new technologies, such as artificial intelligence, in the legal field has reduced costs for law firms and improved the speed and accuracy of results while reducing the need for personnel. Emerging technologies are reshaping how the law is practiced and justice is delivered, providing opportunities for increased efficiency, transparency, and accessibility. These emerging technologies include [8]:

- 1. Artificial Intelligence: AI encompasses machine learning, robotics, natural language processing, and expert systems. It is at the forefront of legal innovation, offering capabilities like predictive analytics in case outcomes and automating complex document review processes. It enables automation, data analysis, and decision-making processes across many sectors. It can assist in tasks like contract review and legal research, improving accuracy and identifying potential errors. It can analyze large datasets to identify patterns and predict outcomes, providing valuable insights for legal professionals. AI algorithms can quickly sift through large volumes of documents, identifying relevant information and patterns, freeing up lawyers for more strategic work. AI can automate contract review and analysis, helping to identify potential risks and ensure compliance. AI can be used to analyze crime data and predict potential hotspots, helping law enforcement allocate resources effectively. Al is lopm no longer optional in the legal industry. Generative AI tools like ChatGPT present many opportunities for legal technology entrepreneurs to innovate and develop valuable solutions that streamline workflows, improve decision-making, and drive the evolution of the legal profession. For example, IBM Watson Legal utilizes advanced artificial intelligence and cognitive computing capabilities to transform legal research and data analysis. Figure 7 represents the use of AI in legal field [9].
- 2. Automation: The way lawyers operate is changing due to automation. Automation technology takes over repetitive and time-consuming tasks. Law technology automates routine and repetitive tasks, such as document generation, data entry, document generation, data entry, and scheduling, freeing up lawyers to focus on more complex legal matters. By automating these tasks, law firms can significantly reduce manual labor, mitigate the risk of human errors, and ensure consistency in legal documents and procedures. Automated processes and technology-driven tools reduce the risk of human error in tasks like data entry and document preparation.

- 3. Blockchain: Blockchain technology is also having an impact on the legal industry. Blockchain is a digital ledger that is transparent, secure, and decentralized, enabling smart contract development. Smart contracts are self-executing agreements that automatically enforce their terms when certain conditions are satisfied. Blockchain technology provides a decentralized and secure way to record transactions, offering transparency and immutability. It has applications in finance, supply chain, power systems, and more. Blockchain's decentralized and immutable nature makes it ideal for storing and managing legal records, ensuring authenticity and integrity. Contract talks might be streamlined using this technology, which would also eliminate the need for mediators like attorneys. The use of blockchain for smart contracts and digital asset management is becoming increasingly popular.
- 4. Immersive Technologies: Virtual reality (VR) and augmented reality (AR) are beginning to make waves in the legal field. These technologies can be used for a variety of applications, such as recreating crime scenes in VR to aid in evidence presentation or employing AR for enhanced document examination. They can be used for lawyers, simulating courtroom training environments, and visualizing complex evidence. VR or AR can help train legal departments by various scenarios simulating and legal environments. Lawyers can also use this legal tech to conduct negotiations without needing to meet face-to-face. VR and online dispute resolution platforms are transforming how disputes are resolved, making the process more efficient and accessible. VR technology can be used to simulate courtroom environments, allowing lawyers and judges to conduct mock trials and practice their skills in a realistic setting. Figure 8 shows an example of how immersive technology is used [7].
- 5. *Internet of Things* (IoT): IoT connects physical devices to the Internet, allowing for data exchange and automation. IoT devices can generate vast amounts of data that can be used in legal investigations and litigation.
- 6. *Cybersecurity:* As technology becomes increasingly integrated into the legal field, cybersecurity threats also increase, requiring legal professionals to be aware of and protect against these risks. Data has become an integral part of legal practice and with the right tools, law firms can encrypt and securely share data within the organization and externally. The increasing

interconnectedness of devices and systems through the Internet of things (IoT) and digital platforms creates new opportunities for cybercriminals to exploit vulnerabilities and launch attacks. Cybercriminals exploit the information given to the Internet by the individual and use it for illegal purposes. Legal frameworks governing data security, breach notification, and cybersecurity standards play a vital role in mitigating these risks and protecting sensitive information from unauthorized access, theft, or manipulation.

- 7. *Cloud Computing:* Cloud-based solutions help lawyers and clients share files and data easily instead of relying solely on emails, improving collaboration and efficiency. The flexibility offered by cloud-based systems facilitates integration between different tools. This allows law firms to effectively manage their practice and bring transparency to communication with each other and clients. Organizations migrating their data to the cloud can enjoy significant benefits.
- 8. Litigation *Management:* Technological advancements in litigation management software provide comprehensive tools for case management, document storage, and team collaboration. These platforms help achieve a seamless flow of information among legal departments, regardless of geographic location, and enable efficient management of litigation portfolios. It facilitates the discovery process by enabling legal teams to upload, review, and produce documents more efficiently.
- 9. Virtual Legal Assistants: AI-powered technologies called legal chatbots and virtual assistants can help with common legal chores, including booking appointments, responding to frequently requested questions, and even giving preliminary legal advice. Startups and emerging businesses require legal assistance with intellectual property, contract negotiation, and business structuring. Virtual legal assistants a significant technological (VLAs) are advancement in the legal sector, leveraging AI to transform how law firms interact with their clients. These AI-driven platforms are designed to perform a variety of tasks that traditionally require human intervention, thus optimizing legal operations and improving the client experience. VLAs can manage routine but essential tasks such as scheduling appointments, organizing client meetings, and sending reminders for upcoming deadlines or payments. Chatbots harness the power of deep learning to act as virtual legal

assistants (VLAs) to clients. This not only improves response time but frees up resources for high-value tasks. And when the VLAs cannot address a query, they forward it to the concerned department. As they get more sophisticated, VLAs are being implemented by more and larger law firms and organizations.

- 10. Identity Management: This has become a crucial legal tech trend in recent years, emphasizing the secure management of digital identities, sensitive data, and access controls within law firms. By employing advanced solutions that handle user authentication, access rights, and activity monitoring, law firms are better equipped to detect and prevent unauthorized access to legal Integrating biometric authentication data. methods, such as fingerprint scanning and facial recognition, offers a more secure alternative to traditional password systems. For example, Okta offers a comprehensive identity and access management solution tailored for organizations, including law firms.
- 11. Smart Legal Contract Management: This leverages blockchain technology to redefine the dynamics of drafting, executing, and enforcing legal agreements.

By embedding contract terms directly into code, smart contracts automate contract negotiation processes when predetermined conditions are met, thereby eliminating the need for manual intervention and making the whole process faster. This legal technology minimizes the ambiguity and disputes that often come with traditional contracts.

## BENEFITS

Understanding the legal implications of emerging technologies is crucial for businesses seeking to leverage these innovations responsibly. Emerging technologies are undoubtedly revolutionizing the practice of law and the delivery of justice. These technologies are designed to augment human capabilities, not replace them. Law firms are focusing on diversity, equity, and inclusion to create a more inclusive work environment. Other benefits include [5]:

- Client Focus: Legal industry is moving towards a more client-focused approach with the rest of the business world. Emerging legal technology trends are transforming modern legal practices and shaping the future of the legal industry.
- Social Media: Social media has created new ways for people to communicate and share information, but it has also created new legal challenges. As technology continues to change, the law must

adapt to ensure that it protects individual rights and freedoms, while also promoting innovation.

- Environmental Law: Environmental lawyers are needed to advise companies on how to navigate complex environmental laws and ensure they meet regulatory standards. As the world grapples with climate change and environmental degradation, environmental law is gaining importance. Governments and organizations are enacting strict environmental regulations, creating opportunities for lawyers who specialize in sustainability, renewable energy, and environmental compliance.
- > Paralegals: In today's rapidly evolving digital age, the role of paralegals is gaining significant importance as law firms recognize the need to adapt to modernize their operations and harness technology for enhanced efficiency. Paralegals play a crucial role in providing an economic advantage to legal practices. They contribute extensively to streamlining legal processes and delivering optimal client experiences. Automation and AI have emerged as prominent trends in the field of paralegal support, revolutionizing the legal world. These technologies have had a profound impact on legal practices, offering unique opportunities for paralegals. Paralegals play a vital role in team collaboration within a law office, working alongside attorneys, legal assistants, and other support staff. Virtual paralegal services offer several benefits, including cost reductions, scalability, and flexibility. To stay competitive in their chosen specialization, must prioritize paralegals professional development and stay abreast of the latest advancements in their field and the legal industry as a whole.
- Contract Management: With the help of contract management software, all contracts can be centralized in a digital repository, eliminating the need for manual storage and retrieval of paper documents.
- Law Enforcement: The use of new technologies is imperative if the police are going to stay a step ahead of criminals. Along with advanced software, hardware and communications networks, enforcement and investigative tools are becoming increasingly mobile-centric. The idea is to equip officers with the newest and most agile tools so that they can be readily applied in the field. New tools have been introduced to maximize operating efficiency in recent years. These include in-vehicle computers, body cameras, license plate readers, handheld narcotics

analyzers, map-based apps, mobile consoles for fingerprint reading, and facial recognition technologies. Figure 9 shows a well-equipped officer [10]. It is not just police departments that are using these emerging technological tools. Correctional facilities are now using biometric technologies to improve offender identification and make the employee access authentication more efficient.

ChatGPT: ChatGPT, as an advanced AI language model, can be utilized in various aspects of the legal profession. ChatGPT can help lawyers and law students conduct efficient and comprehensive legal research by providing relevant case law, statutes, and regulations based on their queries. It can be used to review and analyze large volumes of documents during the due diligence process, streamlining the workload and reducing the time spent on manual review.

## CHALLENGES

The implementation of cutting-edge technologies in the legal industry is challenging.

The legal challenges posed by new technologies are complex and constantly evolving. Irrespective of their type, emerging technologies have serious social implications. They shape our homes, businesses, and governments. For example, there are issues with the precision and dependability of AI-powered legal research tools. While AI tools hold tremendous potential to enhance efficiency, many legal professionals remain hesitant to explore them, representing both a challenge and an opportunity for those ready to adapt. Generative AI is undeniably exciting, but the real challenge for law firms is not adopting new tools; it is reimagining how work gets done within a system that resists change. Other challenges include [11,12]:

- Data Privacy and Security: These are paramount in the digital age. Emerging technologies collect and process vast amounts of personal data, raising concerns about how this data is stored, used, and shared. Protecting sensitive data requires robust cybersecurity measures, including encryption, access controls, and regular security audits to prevent data breaches and unauthorized access.
- Intellectual Property Rights: These rights are critical for protecting innovations and maintaining a competitive edge. Emerging technologies present unique challenges in IP protection. Choosing the latest emerging technologies with implications for IP is somewhat subjective. Determining ownership and IP rights for AIgenerated content, such as art or music, raises

questions about authorship and legal protection. Blockchain technology also introduces new forms of IP, such as smart contracts and decentralized applications. In spite of interesting issues across IP, generative AI's implications arguably have been felt most in the copyright realm. Proponents of AI models suggest that copyrighted content is not incorporated verbatim and the content is transformed into something new.

- Liability: Determining liability for actions taken by autonomous systems and AI-driven devices is a significant legal challenge. Companies must consider who is liable when an autonomous system causes harm. Is it the manufacturer, the software developer, or the end-user? Developing ethical AI systems also requires addressing biases and ensuring that AI-driven decisions are fair and transparent. Legal standards should define the extent of human involvement required for decision-making.
- Regulatory Compliance: Emerging technologies overshadow often existing regulatory uncertainties frameworks, creating and compliance challenges between businesses or individuals and policymakers. Navigating the regulatory landscape for emerging technologies is complex, with industry-specific laws and standards. For example, healthcare technologies must comply with regulations such as the Health Insurance Portability and Accountability Act (HIPAA). Engaging with regulatory bodies and participating in industry forums can help businesses stay informed about regulatory changes and contribute to shaping industry standards.
- > Ethical Concern: Technological advancements raise complex ethical questions related to human rights, social justice, and the moral implications of scientific research and innovation. Emerging technologies pose ethical questions that businesses must address to maintain trust, accountability, and credibility. AI algorithms, for instance, can inherit biases from their training data, resulting in unfair outcomes. To combat this, companies need to actively identify and mitigate these biases, promoting fairness and transparency. Embracing responsible innovation requires balancing technological advancements with ethical considerations, ensuring that technology benefits society while minimizing harm.
- International Legal Issues: Emerging technologies often transcend national borders, raising complex legal issues related to

jurisdiction, cross-border data flows, and international cooperation. Harmonizing laws and regulations across different jurisdictions, promoting interoperability and standardization, and fostering international collaboration are essential for addressing these challenges.

- In essence, addressing the legal implications of emerging technologies is important for the society living inside a digital space. Cybercrimes should be given importance.
- Skills Needed: The profession of law has long been guarded with the assumption that legal knowledge and reasoning is a specialized skill that requires a highly educated and trained specialist to deliver. The legal service industry is witnessing a surge in specialization and niche expertise among paralegals. As the legal profession evolves, so do the skills required to succeed. Lawyers in the future will need more than just legal knowledge. Some of the essential skills that will define the future of law include technological competence and analytical thinking.

## CONCLUSION

It is evident that emerging technologies are changing the legal field. New legal tech solutions, like AIpowered legal guidance and contract automation, are transforming the legal industry. Therefore, we must remain knowledgeable about these technologies and how they are applied to law practice as lawyers. Law and technology are no longer disconnected as technology for lawyers enhances the efficiency of legal services. However, technology, no matter how advanced, is not enough to create effective legal strategies. Law firms need to go beyond simply layering new technology onto old habits. They must rethink how they deliver value to clients, breaking free from the time-for-money mindset that limits innovation. They must be willing to rethink the traditional business model of a law firm.

The legal profession and the future law firm will be radically different as a result of the advancement of technology. The future of law is being shaped by several transformative trends. These trends are driving the evolution of legal practice and creating new opportunities for lawyers. The future of law is filled with opportunities for those willing to embrace change and adapt to emerging trends and technologies. While the future will need the law, it may not necessarily need lawyers to provide it. More information about emerging technologies in the law field can be found in the books [13-21] and a related journal: *Journal on Emerging Technologies*.

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# Legal Tech vs Law Tech



Figure 1 The relationship between the concepts of legal tech and law tech [1].



Figure 2 Some emerging technologies [4].



Figure 3 Symbol for legal practice [5].



Figure 4 A group of lawyers [6].



Figure 5 Symbol of technology in law practice [7].

# Law Firm Routine Tasks Legal Technology Streamlines



Figure 6 Components of legal technology [1].



Figure 7 Representation of AI in legal field [9].



Figure 8 An example of how immersive technology is used [7].



Figure 9 A well-equipped officer [10].