ISSN:

Issue:1, (2025), Volume: 1 January-June 2025

GENERATIVE ARTIFICIAL INTELLIGENCE AND THE FUTURE OF COPYRIGHTS: NAVIGATING THE INTERSECTION OF CREATIVITY AND LAW

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ABSTRACT

The advent of Generative Artificial Intelligence (AI) is transforming the creative landscape, challenging existing frameworks of copyright law. As AI systems become increasingly capable of producing original works ranging from music to visual art, literature, and beyond, fundamental questions arise regarding the ownership and protection of these creations. This article delves into the complex relationship between generative AI and copyright law, examining the legal, ethical, and practical implications of AI-generated content. The article begins by exploring the technical capabilities of generative AI, highlighting its potential to mimic and innovate upon human creativity. It then addresses the current state of copyright law, which traditionally ties protection to human authorship, and the difficulties this poses in the context of AI-generated works. The article primarily discusses copyright of material generated by AI by using public data and further discusses various approaches to attributing authorship and ownership, including recognizing the AI system itself as the creator, attributing authorship to the developer, or treating AI-generated works as public domain. Further, the article analyzes key legal cases and emerging legislation from different jurisdictions to understand how courts and lawmakers are grappling with these issues. The discussion extends to the ethical concerns surrounding AI creativity, such as the potential displacement of human artists and the need for transparency in AIgenerated content. The article concludes by proposing a forward-looking framework for integrating generative AI within the existing copyright regime. It advocates for a balanced approach that protects human creativity while accommodating the unique contributions of AI, ensuring that the legal system evolves in step with technological advancements.

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Issue:1, (2025), Volume: 1 January-June 2025

ISSN:

INDIAN COPYRIGHT LAW: NAVIGATING THE INTERSECTION WITH **GENERATIVE AI**

Indian copyright law, grounded in the Copyright Act of 1957, has evolved significantly over the decades to address various technological advancements and creative industries' needs. The rapid development of generative AI technologies, which can create text, images, music, and other content, presents new challenges and opportunities for copyright protection and enforcement. The Indian Copyright Act, 1957, governs copyright in India and has undergone several amendments to adapt to global standards and technological advancements. The primary objective of the Act is to provide protection to the creators of original works, allowing them to control the use of their creations and benefit financially from them.

Under Section 13 of the Act, "copyright subsists in original literary, dramatic, musical, and artistic works, as well as cinematograph films and sound recordings. The Act grants the author or creator exclusive rights to reproduce, perform, and distribute their work, and to make adaptations and translations. This protection is automatic upon creation of the work, provided it is fixed in a tangible form and original in nature."415 Copyright protection in India lasts for the lifetime of the author plus 60 years from the year of the author's death. For works created by corporate entities or anonymous works, the term is 60 years from the date of publication. This extended term is designed to ensure that creators and their heirs benefit from their works over a substantial period.

Generative AI technologies, "which use algorithms and machine learning to produce new content based on existing data, present several challenges for traditional copyright frameworks. These challenges include questions about authorship, originality, and the application of copyright laws to AI-generated works. A fundamental question arising from generative AI is who owns the rights to content created by AI."416 Traditional copyright law attributes authorship to human creators. However, "in the case of AI, the "creator" is a machine, raising questions about how to apply these principles. For example, if an AI generates a novel piece of music or artwork, the traditional framework

⁴¹⁵ Section 13, Copyright Act, 1957

⁴¹⁶S. Choudhury, Generative AI and Copyright: Navigating the Legal Landscape' [2020],15(2) Journal of Intellectual Property Law & Practice, 75.

ISSN:

Issue:1, (2025), Volume: 1 January-June 2025

does not easily accommodate the concept of a non-human author."⁴¹⁷ In India, "the Copyright Act does not explicitly address AI-generated works. As a result, works created by AI may not fit neatly into the existing legal framework, potentially leaving them without clear copyright protection."⁴¹⁸

The principle of originality is a cornerstone of copyright protection. According to Section 13, a work must be original to qualify for copyright protection. Generative AI systems produce content by analyzing and learning from existing works, which raises concerns about the originality of AI-generated content. If an AI's output closely resembles existing works, it could be argued that it lacks the necessary originality for copyright protection.

While the Copyright Laws in India provides a robust framework for protecting the rights of creators, the advent of generative AI introduces complexities that the Act's traditional provisions may not fully address. "(Generative) AI, which utilizes vast amounts of data to create new content, challenges existing copyright paradigms, especially concerning authorship and originality. To navigate these challenges, it is crucial to understand how the principles of originality and creativity embedded in Indian copyright law intersect with the capabilities and outputs of generative AI."⁴¹⁹

FUNDAMENTALS OF CREATIVITY AND FAIR USE

Given the foundational role that creativity and fair use play in copyright protection, it is important to consider how these principles are tested by the capabilities of generative AI. AI systems, which generate content by analyzing extensive datasets, blur the lines between original expression and derivative works. This necessitates a closer look at whether AI-generated content aligns with the creative and originality standards set forth by copyright law and how fair use doctrines might be adapted to accommodate these new technological realities. "Copyright law is grounded in two central concepts, the requirement of creativity in the work and the principle of fair use for users. These

⁴¹⁷ S. Dey, 'The Copyright Implications of AI-Generated Content' [2022], 18(3) Indian Journal of Law and Technology, 202.

⁴¹⁸ A. Sharma, 'Copyright Law and Artificial Intelligence: Emerging Issues and Challenges' [2021]27(1) Law Review, 45.

⁴¹⁹ V. Singh, 'Artificial Intelligence and Copyright Law: Bridging the Gaps in Indian Legislation' [2023] 28(3) Indian Law Journal, 35.

ISSN:

Issue:1, (2025), Volume: 1 January-June 2025

principles play a crucial role in determining both the protection afforded to authors and the rights of users."⁴²⁰

The first fundamental concept in copyright law is that of creativity and originality. To qualify for copyright protection, a work must exhibit a level of creativity and originality beyond mere abstract ideas. This principle ensures that copyright is granted to works that reflect an author's personal expression rather than to generalized concepts or ideas. Under Indian copyright law, as outlined in Section 13 of the Copyright Act, 1957, a work must be an original literary, dramatic, musical, or artistic creation to be eligible for copyright protection. The requirement of originality means that the work must be the result of the author's own intellectual effort and not merely a copy or slight variation of existing works. This creative requirement serves to safeguard the author's right to control and benefit from their unique expression.

The distinction between an abstract idea and a creative expression is critical. "Abstract ideas, such as general themes or concepts, are not protected by copyright. Instead, copyright protection extends to the specific manner in which these ideas are expressed." For instance, while the idea of "love" or "adventure" is not copyrightable, a unique story or poem that explores these themes through original language and narrative structure is protected.

The second crucial concept is fair use, which pertains to the rights of users to engage with copyrighted works without obtaining explicit permission from the copyright holder. Fair use is a doctrine that allows limited use of copyrighted material under certain conditions, balancing the interests of authors with the public's need for access to information and creative works. In the Indian context, the concept of fair use is addressed under Section 52 of the Copyright Act, 1957. This section outlines specific instances where the use of copyrighted material does not constitute infringement, such as for criticism, review, news reporting, teaching, scholarship, or research. Fair use is designed to foster a culture of learning and innovation by permitting uses that serve public interests and contribute to the educational and cultural dialogue. "The principle of fair use ensures that while copyright protects the author's rights, it does not unduly

⁴²⁰ Kirtsaeng v. John Wiley & Sons, Inc., 568 U.S. 519 (2013)

⁴²¹ M. Gupta, 'The Impact of AI on Creative Industries: Legal Perspectives from India' [2021] 19(1) Journal of Information Technology and Law, 55.

ISSN:

Issue:1, (2025), Volume: 1 January-June 2025

hinder the dissemination and transformation of knowledge."⁴²² For instance, quoting a passage from a book for a critical review or using excerpts of a song in an educational presentation can be considered fair use, provided that these uses do not undermine the market value of the original work.

With the advent of generative AI technologies, the application of these principles becomes more complex. "AI systems, which can produce creative works based on existing data, challenge traditional notions of authorship and originality. The creativity requirement must now address whether AI-generated content qualifies as original expression or simply a reconfiguration of pre-existing data." Additionally, the fair use doctrine needs to adapt to scenarios where AI systems generate works that might draw on extensive data from copyrighted sources.

"The core concepts of creativity and fair use underpin copyright law by distinguishing between protectable expressions and unprotected ideas, and by allowing certain uses of copyrighted material for the public good. In India, courts have traditionally required a degree of human creativity to establish originality. The challenge is determining whether AI-generated works meet this standard." This issue could lead to legal uncertainties and potential disputes over the ownership and protection of such works. As traditional notions of authorship and originality struggle to encompass non-human creators, understanding the core principles of creativity and fair use becomes essential. This brings us to a deeper examination of how these concepts are applied and interpreted under Indian copyright law, especially with the transformative nature of AI-generated works.

DATA COLLECTION AND ITS IMPLICATIONS

The way generative AI systems collect and process data raises significant questions about the originality of the content they produce. As AI systems integrate and analyze vast amounts of existing works to generate new creations, this prompts a critical examination of how copyright law addresses such transformative uses. Understanding this intersection is key to evaluating whether AI-generated works might be seen as

⁴²² Sony Corp. v. Universal City Studios, Inc., 464 U.S. 417 (1984)

⁴²³ R. Kapoor, 'Navigating Copyright in the Age of AI: A Case Study of Indian Jurisprudence' [2021] 22(1) Indian Journal of Intellectual Property Law, 30.

⁴²⁴ S. Bhattacharya, 'Generative AI and Copyright: Global Trends and Indian Context' [2020] 15(4) Comparative Law Review, 150.

ISSN:

Issue:1, (2025), Volume: 1 January-June 2025

original and therefore eligible for copyright protection, or if they fall into categories of derivative works subject to different legal scrutiny.

Generative AI... "relies on extensive data collection to function effectively, and this data encompasses much more than mere numerical values in spreadsheets. It involves a vast array of creative and diverse content, from text and images to music and video. The interaction between AI and data raises significant questions about creativity and the use of intellectual property, which are central to ongoing legal debates and challenges." 425 Generative "AI systems, such as those based on machine learning algorithms, require massive amounts of data to learn and generate new content. This data typically includes a broad spectrum of material, including literary texts, visual art, audio recordings, and more."426 Unlike traditional data, "which might be structured and numeric, the data used in generative AI includes unstructured and creative content. For example, a text-based AI like GPT (Generative Pre-trained Transformer) is trained on diverse textual data, ranging from books and articles to websites and social media posts."427

The data used by generative AI is not simply aggregated and stored, "it is analyzed and processed through complex algorithms that identify patterns, relationships, and features within the data. This processing allows AI to generate new content that reflects the characteristics of the input data. For instance, an AI trained on thousands of paintings can produce original artwork that mimics the styles and techniques present in the training set, even though the resulting pieces are not direct copies of any single artwork."428

CREATIVITY AND DATA USE IN AI

A critical issue in the realm of generative AI is whether the data used by these systems can be considered "creative" in the context of copyright law. Copyright protection is generally granted to original works that reflect the author's creative expression. When AI generates content based on its training data, it raises questions about whether the

⁴²⁵ P. Shukla, 'Artificial Intelligence and Intellectual Property Rights: A Comparative Study' [2021] 29(2) International Journal of Law and Technology, 101.

⁴²⁶ R. Kapoor, 'Navigating Copyright in the Age of AI: A Case Study of Indian Jurisprudence' [2024] 22(1) Indian Journal of Intellectual Property Law, 30.

⁴²⁷ OpenAI, 'GPT-4 Technical Report' (July 2023)

⁴²⁸A .Sharma, 'Copyright Law and Artificial Intelligence: Emerging Issues and Challenges' [2021]27(1) Law Review, 45.

ISSN:

Issue:1, (2025), Volume: 1 January-June 2025

resulting work involves sufficient originality to warrant copyright protection. "The concept of "creativity" in AI-generated works is complex. While AI can produce outputs that mimic the creative aspects of its training data, the AI itself does not possess creativity or intent. Instead, it operates based on statistical patterns and learned associations." The legal challenge is determining whether AI-generated works are original expressions or merely derivative of the data they were trained on. Courts and legal scholars are debating whether the copying of elements from the training data constitutes infringement or if the generated works qualify for protection due to their novel synthesis of existing content."

Open AI commented by noting that "as copyright protection arises automatically when an author creates an original work and fixes it in a tangible medium, the vast majority of content posted online is protected by copyright laws." "AI systems require large amounts of data," often "derived from existing publicly accessible 'corpora' of data that include copyrighted works." "By analyzing large corpora (which necessarily involves first making copies of the data to be analyzed), AI systems can learn patterns inherent in human-generated data and then use those patterns to synthesize similar data which yield increasingly compelling novel media in modalities as diverse as text, image, and audio.""Generative AI also introduces new ways of utilizing data that can result in benefits not previously anticipated. For example, AI can combine disparate elements of data to create innovative solutions and applications, such as personalized content recommendations, new artistic styles, or novel research insights."⁴³²

The debate over the originality of AI-generated content leads us naturally to the concept of transformative use in copyright law. As AI-generated works often do not replicate but rather transform existing data, this raises important questions about how such transformations are legally perceived. Examining the principles of transformative use and their application to AI-generated works is crucial for understanding whether these works can be considered original and deserving of copyright protection.

⁴²⁹ S. Dey, 'The Copyright Implications of AI-Generated Content' [2022]18(3) Indian Journal of Law and Technology, 202.

⁴³⁰ S. Choudhury, 'Generative AI and Copyright: Navigating the Legal Landscape' [2020]15(2) Journal of Intellectual Property Law & Practice, 75.

⁴³¹ MultiCraft Imps., Inc. v. Mariposa USA, Inc., 2017 U.S. Dist. LEXIS 239606, 2017 WL

⁴³² M. Gupta, 'The Impact of AI on Creative Industries: Legal Perspectives from India' [2023] 19(1) Journal of Information Technology and Law, 55.

Issue:1, (2025), Volume: 1 January-June 2025

ISSN:

TRANSFORMATIVE CHARACTER IN COPYRIGHT WORK

The concept of transformative use in copyright law has been increasingly pivotal in determining whether a derivative work qualifies for protection under fair use doctrine. "This principle has evolved significantly from the traditional "sweat of the brow" doctrine to a more nuanced "modicum of creativity" standard."433 This evolution is exemplified in the judgment of Chancellor Masters and Scholars of the University of Oxford v. Narendra Publishing House, 434 which provides critical insights into how courts assess transformative character and originality in contemporary copyright disputes. The judgment in Chancellor Masters and Scholars of the University of Oxford v. Narendra Publishing House underscores the importance of assessing transformative character in determining fair use. By moving away from the labor-centric "sweat of the brow" doctrine, the court embraced a more refined analysis that considers the creative and functional aspects of both the original and the derivative work.

The traditional "sweat of the brow" doctrine, prevalent in earlier copyright jurisprudence, held that copyright protection was granted based on the amount of effort and labor invested in creating a work. This doctrine, however, often led to overly broad protections and insufficient consideration of the creative aspects of a work. The shift towards a "modicum of creativity" standard, as recognized in cases like Eastern Book Company v. DB Modak, 435 marks a significant departure from this approach. In Eastern Book Company, the Supreme Court held that the mere compilation of facts, such as mathematical questions and answers, did not warrant copyright protection unless a minimal level of creativity was demonstrated. This case established that copyright protection requires more than just the labor invested; it necessitates an element of originality in the expression of ideas.

In Syndicate of the Press of the University of Cambridge v. B.D. Bhandari, court held that "the doctrine of fair use legitimizes the reproduction of a copyrightable work." ⁴³⁶ It further says that to establish copyright, it is essential to understand that the standard for

⁴³³ Campbell v. Acuff-Rose Music, Inc., 510 U.S. 569 (1994)

^{434 2008} SCC OnLine Del 1058

^{435 (2008) 1} SCC 1

⁴³⁶ Syndicate of the Press of the University of Cambridge v. B.D. Bhandari 2009 SCC OnLine Del 4398,

ISSN:

Issue:1, (2025), Volume: 1 January-June 2025

creativity is not as rigorous as the requirements for novelty or non-obviousness found in patent law. Instead, copyright law requires that a work demonstrates some level of creativity. This does not mean that a work must be groundbreaking or entirely new, but it should exhibit a degree of originality that sets it apart from mere routine or commonplace efforts. The court analyzed the creativity and originality of a work through the lens of selection and arrangement. If the work in question involved the compilation and organization of content, which the court deemed to be typical and largely a result of labor, skill, and investment rather than genuine creativity. Thus it is emphasized that for a work to qualify as original, it must reflect some level of inventive thought or artistic expression, beyond mere effort or financial expenditure.

It was further clarified that copyright protection requires more than just trivial variations. It must demonstrate substantive variation, which means that the work should include significant creative differences from existing works. The principle here is that minor or insignificant changes, such as choosing from a limited range of available expressions, do not suffice to secure copyright protection. Instead, the work must present a meaningful and original contribution to the field. This ensures that copyright law is not used to claim ownership over commonplace or minimally altered content, but rather to protect works that offer distinctive and substantive creative value.

The courts in India are of opinion that if data base is used to produce something new, these contributions were minimal and did not exhibit sufficient originality. Similarly, if generative AI uses data base to learn things and produce something new, must not exhibit sufficient originality. Thus, it seems that Generative AI does not attract copyright issues, at least in this context. Additionally, the Apex Court applied the principle of the public domain in its judgment. The court reiterated a fundamental aspect of copyright law, once a work enters the public domain, it is no longer protected by copyright. As a result, the reproduction or publication of such works does not constitute copyright infringement. The principle of public domain plays a crucial role in ensuring that works eventually become freely accessible to the public, balancing the interests of creators with broader societal benefits. It prevents perpetual copyright protection and allows works to contribute to the public good once their initial protection period has expired.

ISSN:

Issue:1, (2025), Volume: 1 January-June 2025

Overall, the court's decision reflects a nuanced understanding of copyright law. It emphasizes that while copyright does not require works to be novel or non-obvious, there must be some level of creativity involved. The decision also clarifies that routine efforts, such as typical selection and arrangement of content, are insufficient for copyright protection unless they exhibit a notable degree of originality. The requirement for substantive variation over trivial changes ensures that copyright is granted only to works that offer a significant creative contribution.

The application of the public domain principle further underscores the court's approach to balancing the rights of authors with public access to creative works. By reaffirming that works in the public domain cannot be protected by copyright, the court supports the notion that copyright should not be used to indefinitely restrict access to content that has become a part of the public realm. This balanced approach ensures that copyright law serves its intended purpose of encouraging creativity while also fostering an environment where public access to creative works is maintained and promoted.

In assessing whether a use qualifies as "transformative," it is essential to evaluate how the copyrighted work is employed. Open AI argues that the "proper application of fair use factors necessitates a determination of fair use, particularly given the significantly transformative nature of training AI systems." Training AI systems fundamentally alters the use of the copyrighted material. The works used in training datasets were originally created for human consumption, intended to be enjoyed for their standalone entertainment value. In contrast, the intermediate copying of these works for AI training purposes is inherently "non-expressive"; it serves to enable computer programs to discern patterns within human-generated content. The purpose behind this process—developing a functional generative AI system is distinctly different from the original intent of human consumption. Moreover, the outputs of the AI system do not replicate or allow access to specific content from the original training corpus; rather, they produce new and unique results. Thus, both the purpose and the result of using these works for AI training are highly transformative.

The Delhi High Court's judgment emphasized the transformative nature of the defendant's work. The court examined "whether the defendant's guidebooks simply replicated the plaintiff's content or whether they transformed it in a way that constituted fair use. Transformative use, as articulated in copyright jurisprudence, refers to whether

Issue:1, (2025), Volume: 1 January-June 2025

the new work adds new expression, meaning, or message to the original, thereby serving a different purpose. The court found that the defendant's guidebooks did not copy the theoretical content of the plaintiff's material but instead offered a different approach by providing step-by-step methods to solve problems. The defendant's works did not include the theoretical discussions present in the plaintiff's books; rather, they presented a practical, solution-oriented perspective. This distinction was crucial in determining that the defendant's guidebooks had a transformative character, which contributed to the court's decision not to grant the interim injunction. The court reaffirmed the principle that fair use legitimizes the reproduction of copyrighted material if the new work is transformative." The court's analysis showed that the defendant's guidebooks offered a new utility by breaking down problems into step-by-step solutions, thus creating a distinct educational tool rather than merely reproducing the plaintiff's content.

In the evolving landscape of copyright law and generative AI, the use of data by AI systems to create transformative works presents a compelling argument against copyright infringement in India. Generative AI, which relies on extensive datasets comprising diverse creative content such as texts, images, and music, generates new outputs by identifying patterns and relationships within the data. This process is fundamentally different from traditional data use, which often involves structured numerical values. Unlike traditional uses of copyrighted works, which might replicate or build directly upon existing content, AI's training process is inherently transformative. The AI system does not merely copy data but rather processes it to discern patterns, enabling it to generate novel content. Indian copyright law, guided by principles of transformative use, reflects a shift from the traditional "sweat of the brow" doctrine to a more nuanced approach. The Delhi High Court's judgment further underscores the importance of transformative use. It affirmed that fair use applies when new works add new expression or meaning to the original. In the context of AI, the training process and subsequent generation of content do not replicate specific works but rather produce unique results. This significant transformation in purpose and output supports the argument that AI-generated content, derived from copyrighted material, should not attract copyright issues in India. The use of data for training AI systems thus

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ISSN:

⁴³⁷ University of Oxford v. Narendera Publishing House, 2008 SCC Online Del 1058

ISSN:

Issue:1, (2025), Volume: 1 January-June 2025

falls within the realm of transformative use, exempting it from traditional copyright constraints.

The concept of transformative use, as explored through recent case law, provides a framework for understanding how generative AI might fit within copyright law's evolving landscape. The practical implications of this doctrine for AI-generated works highlight the need for a nuanced application of copyright principles. By analyzing how the transformative nature of AI-generated content aligns with legal precedents, we can better assess whether such works should be exempt from traditional copyright constraints in India.

CONCLUSION

The intersection of generative AI and copyright law represents a profound and transformative juncture in the landscape of intellectual property jurisprudence. As technology advances at an unprecedented pace, the rise of generative AI—capable of creating original text, images, music, and other creative outputs—poses significant challenges to traditional notions of authorship, originality, and copyright protection. In the Indian context, where the Copyright Act of 1957 has long stood as a cornerstone of intellectual property rights, the emergence of generative AI presents both opportunities and complex legal dilemmas that necessitate a critical examination and potential reformation of existing legal frameworks. The Indian Copyright Act of 1957 was crafted with the intention of protecting the rights of human creators, recognizing the personal expression and intellectual effort that go into artistic and literary works. This legal framework has traditionally granted copyright protection to individuals who infuse their works with unique, human creativity. The Act's provisions reflect a fundamental belief that creativity arises from human endeavor and intention, and it is this principle that underpins the attribution of authorship and the protection of creative works.

Generative AI, however, challenges these foundational principles. AI systems, driven by advanced algorithms and vast datasets, generate content through processes that diverge fundamentally from traditional human creativity. Instead of originating from personal expression or intent, AI-generated content results from the synthesis and reconfiguration of existing data. This shift prompts crucial questions about how current copyright frameworks can accommodate and regulate works produced by non-human entities. One of the most pressing issues is the definition of authorship. Traditional copyright law

ISSN:

Issue:1, (2025), Volume: 1 January-June 2025

recognizes authorship as an attribute of human creators, but AI systems complicate this notion. If a machine produces a novel text or a unique piece of art, the question arises: who is the "author"? Can a machine be considered a legal author, or does authorship require a human touch? The Indian Copyright Act, which is silent on the matter of AI-generated works, leaves a significant legal gap. This ambiguity creates uncertainty about whether AI-generated outputs can be protected under existing copyright provisions and, if so, how they should be attributed and managed.

Another fundamental issue is the concept of originality. Copyright law in India mandates that works must be original to qualify for protection. This originality requirement is based on the premise that creative works reflect the personal intellectual effort of their human creators. However, AI systems generate content by analyzing and synthesizing vast amounts of pre-existing data, which raises questions about the originality of AI outputs. Since AI does not create in the same way humans do, but rather reconfigures and combines existing data, it challenges the traditional criteria for originality. The debate centers on whether AI-generated works, which might closely resemble or build upon existing creations, exhibit sufficient originality to warrant copyright protection. The principle of fair use further complicates the relationship between AI and copyright law. Fair use is designed to balance the rights of creators with the public interest, allowing for limited use of copyrighted material without permission for purposes such as criticism, commentary, and research. In the context of generative AI, where data is not merely copied but transformed into novel outputs, the traditional application of fair use may need to be reconsidered. The transformative nature of AI's data processing, which involves reconfiguring rather than directly copying material, suggests that AI's engagement with copyrighted works might be justifiable under current doctrines. However, the nuances of this transformation must be carefully examined to determine how fair use should be applied to AI-generated content.

The future of copyright law in the age of generative AI will undoubtedly involve significant adaptation. The Indian Copyright Act, while historically robust, must evolve to address the unique challenges presented by AI technologies. This evolution may require redefining core concepts such as authorship, originality, and fair use to align with the realities of technological advancements. The legal system must grapple with

ISSN:

Issue:1, (2025), Volume: 1 January-June 2025

how to recognize and protect AI-generated works while maintaining the integrity of copyright law's foundational principles.

Addressing these challenges will require a collaborative effort among lawmakers, legal scholars, and industry stakeholders. A nuanced approach is essential to developing frameworks that accommodate both the protection of human creativity and the innovative potential of AI. Lawmakers will need to engage in comprehensive discussions to craft legislation that balances the rights of human creators with the need to regulate AI-generated content. Legal scholars can contribute by providing insights into how existing doctrines might be adapted or reinterpreted in light of new technological realities. Industry stakeholders, including technology developers and content creators, will play a crucial role in shaping practical and equitable solutions.

In conclusion, the convergence of generative AI and copyright law is a compelling area for critical examination and reform. The transformative capabilities of AI necessitate a rethinking of traditional legal doctrines to address the unique characteristics of AI-generated works. Embracing a forward-looking approach that recognizes the potential of AI while safeguarding human creators' rights will be crucial for navigating the future of creativity and law. As generative AI continues to shape creative industries and intellectual property landscapes, it is imperative that the legal system evolves in a way that supports innovation while upholding the core principles of copyright protection.

The evolving nature of AI presents an opportunity to re-imagine copyright law in a way that acknowledges the contributions of both human and artificial creators. By developing legal frameworks that are adaptable and inclusive, we can ensure that the benefits of technological advancements are realized while respecting the foundational principles of intellectual property. As we move forward, it will be essential to maintain a delicate balance between fostering creativity and innovation and preserving the rights and recognition of human creators. This balance will be key to crafting a copyright system that is both responsive to technological changes and committed to protecting the creative spirit that lies at the heart of intellectual property law.