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IPR AND AI: A STUDY OF CHATGPT AND ITS CONCERNS ABOUT IPR INFRINGEMENT

Swastika¹ and Shruti Raj Singh²

ABSTRACT

The fast growth of Artificial Intelligence (AI) technology has resulted in a number of intellectual property rights (IPR) issues that must be thoroughly investigated. This paper digs into the complex junction of AI and IPR, concentrating on the instance of ChatGPT, an advanced language model built by OpenAI. This study begins with a complete hold of the essential ideas of IPR, which include copyright, patents, trademarks, and trade secrets. Following that, it digs into ChatGPT's procedures and architecture, offering insight on the fundamental processes which provide its text generating capabilities. Copyright is one of the key issues of IPR violation in the context of ChatGPT. Because ChatGPT creates material that is frequently indistinguishable from human-created content, identifying authorship becomes difficult. This study looks into scenarios in which ChatGPT-generated work might be mistakenly or purposefully ascribed to human writers, resulting in plagiarism and unlawful distribution. Furthermore, the study delves into the patentability of various algorithms or methods used in the ChatGPT architecture. As AI models get more detailed and imaginative, obtaining patents for underlying processes may become more difficult, thereby restricting scientific progress. When evaluating ChatGPT's design and training data, trade secrets, another aspect of IPR, come into play. While OpenAI has released significant information about the model's architecture, the technical details of its training data and fine-tuning techniques have not been revealed. This lack of disclosure raises concerns about the protection of commercial secrets and the delicate balance between open research and private interests. The research also looks into the function of trademarks in AI-generated content. It investigates situations in which AI-generated products, services, or information can hold trademarks, blurring the distinctions between human authorship and commercial branding. To address these issues, the paper presents a framework for regulating intellectual property rights (IPR) in the context of AI, with a focus on striking a balance between promoting innovation and preserving the rights of human creators. This framework proposes greater disclosure

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requirements for AI-generated material, procedures for explicit attribution, and adaptive patent restrictions that take into account the ever-changing environment of AI technology. Finally, the paper emphasizes the need of resolving the IPR concerns brought by AI technologies such as ChatGPT. As artificial intelligence continues to reshape creativity and innovation, an updated IPR framework that balances the interests of creators, developers, and society at large is critical for maintaining a sustainable and productive AI ecosystem.

KEYWORDS

IPR, AI, ChatGPT, Copyrights, Patents, Trademarks, Trade Secrets and Infringement.

I. INTRODUCTION

The advancement of AI technology has revolutionized how information is processed, comprehended, and created. This research intends to analyze the complex link between Intellectual Property Rights (IPR) and AI. The study investigates IP infringement risks and examines the legal framework that controls AI-generated material, with a focus on copyright, patent, and trade secret implications.

As AI systems display incredible creativity, the convergence of AI and Intellectual Property Rights (IPR) poses both unprecedented potential and delicate obstacles. This legal study digs into the complex interplay between intellectual property rights and artificial intelligence, providing insights into the changing landscape of intellectual property protection in the context of AI-driven innovation. The case of “**Star India Pvt. Ltd. v. Leo Burnett (India) Pvt. Ltd. (2003)**”³ concerned advertisement copyright protection. It can be used to explore copyright problems about AI-generated advertising content.

The advent of AI technology has added a new dimension, raising concerns about the compatibility of current IPR frameworks with the distinct

³ Star India Pvt. Ltd. v. Leo Burnett (India) Pvt. Ltd., 2003 (2) BomCR 655

qualities of AI-generated material.⁴

As AI systems, such as ChatGPT, display the potential to produce material that simulates human inventions, the fundamental foundations of intellectual property law are put to the test. This legal research examines the dynamic relationship between IPR and AI, examining the problems and opportunities presented by AI's creative potential. This paper tries to illuminate the intricacies of IPR within the AI ecosystem by a comprehensive assessment of case law, statutory regulations, and international agreements.

The case of “**Google India Pvt. Ltd. v. Vishal Gupta**”⁵ was concerned with the privacy issues. It may be used to address the ethical implications of AI-generated material as well as privacy concerns. “**Microsoft Corporation v. Rajendra Pawar (2007)**”⁶ dealt with software piracy and copyright infringement. It may be used to argue the significance of intellectual property protection for AI-generated software and apps.

This investigation includes a variety of legal considerations. From the threshold of originality in AI-generated works to the patentability of innovative AI inventions, each aspect necessitates a careful consideration to achieve a harmonic alignment between the domains of AI and IPR. Furthermore, the problem of authorship, ownership, and fair use doctrine needs a new point of view in order to adapt classical notions to the AI realm.

This research goes beyond conventional IPR standards to highlight the ethical and societal ramifications of AI-driven inventions. The pursuit of a balance between encouraging innovation and protecting individual and

⁴ Dr Hayleigh Boshier, WIPO Impact of Artificial Intelligence on IP Policy Response from Brunel University London, Law School & Centre for Artificial Intelligence, https://www.wipo.int/export/sites/www/about-ip/en/artificial_intelligence/call_for_comments/pdf/org_brunel.pdf

⁵ Google India Pvt. Ltd. v. Vishal Gupta, C. No. 06 & 46 of 2014

⁶ Microsoft Corporation v. Rajendra Pawar (2007), 2008 (36) PTC 697 (Del)

group rights emerges as a top priority, influencing the creation of AI-related IPR frameworks.⁷

In “**Tips Industries Ltd. V. Wynk Music Ltd.**”⁸, a streaming platform was sued for copyright infringement. It may be used to examine the legal issues surrounding copyright protection in the digital age. The patent infringement case of “**Monsanto Technology LLC v. Nuziveedu Seeds Ltd.**”⁹ (2019) emphasized the complexity of patent protection in the biotechnology sector. It may be used to explore the issues of patent eligibility in AI-generated technologies.

This legal study navigates the diverse terrain of IPR and AI as society moves closer to an AI-augmented future, providing insights into evolving jurisprudence and policy debate. This research contributes to the continuing discourse surrounding the harmonization of IPR and AI by interpreting the dense web of legal concerns, ensuring that artists' and innovators' rights progress in parallel with technological advancements.

II. CHATGPT: OVERVIEW

ChatGPT, an OpenAI¹⁰ offering, is the apex of natural language processing (NLP) technology. It is built on the GPT (Generative Pre-Trained Transformer) architecture and is particularly developed for text-based interactions¹¹. In this post, we'll look into ChatGPT's sophisticated design and examine its numerous features, followed by an explanation of how it's used in various applications. The design of ChatGPT is based on the

⁷ Nachiketa Mittal, ChatGPT-the ultimate AI innovation, <https://www.thehindubusinessline.com/opinion/chatgpt-the-ultimate-ai-innovation/article66451425.ece>

⁸ Tips Industries Ltd. V. Wynk Music Ltd, N.M(L) 197/2018 in C.S.

⁹ Monsanto Technology LLC v. Nuziveedu & Ors, AIR 2019 SC 559

¹⁰ **OpenAI** is an American [artificial intelligence](#) (AI) [research laboratory](#) consisting of the [non-profit OpenAI, Inc.](#) and its for-profit [subsidiary](#) corporation **OpenAI, L.P.** [registered in Delaware](#).

¹¹ Unknown, Unlocking the Potential of ChatGPT: Explore the Endless Use Cases of this Versatile AI Language Model, COTW, (last visited 11th September 2023), <https://campaignsoftheworld.com/news/openai-chat-gpt/>.

Transformer model, which has revolutionized the area of NLP. The Transformer architecture, which is distinguished by self-attention techniques, enables the model to consume and create text data while retaining a thorough awareness of context and grammar. The possibilities of ChatGPT go much beyond mere text production. Its flexibility makes it an invaluable tool in a wide range of applications:

- **Text Generation:** ChatGPT is very good at creating human-like text. It may generate logical and contextually appropriate replies when given a prompt or context. This talent is used for tasks such as email drafting, article writing, and content creation.
- **Language Understanding:** The model exhibits a strong command of the English language. It can comprehend and reply to user inquiries, making it appropriate for question-answering, language translation, and information retrieval jobs.
- **Conversational AI:** The strength of ChatGPT is its conversational capabilities. It can have text-based discussions that are similar to human interactions. This functionality may be used to create chatbots, virtual assistants, and customer care agents.
- **Text Summarization:** ChatGPT excels at summarizing long messages. It may reduce articles, reports, and papers into succinct summaries, assisting with information retrieval and digesting content.
- **Content creation:** The approach can help with content production in a variety of disciplines. It can produce marketing text, product descriptions, and even creative writing, saving content creators time and effort.
- **Code Generation:** ChatGPT may be a great resource for developers when it comes to code generation. It can produce code samples, explain coding, and help with programming-related activities.
- **Education:** ChatGPT may be used to generate course materials, explanations, and interactive courses. It contributes to the

development of e-learning material and individualized learning experiences.

- **Data Analysis:** ChatGPT can analyze and understand data, provide reports, and give insights in data-driven decision-making activities, making it a helpful tool in data-driven decision-making.

Furthermore, the design and features of ChatGPT make it a strong tool with a wide range of applications. Its profound comprehension of language, text creation skill, and flexibility to a wide range of sectors make it a versatile option for corporations, organizations, and individuals. ChatGPT is at the vanguard of redefining the way we engage with and use natural language processing technology in our daily lives, whether it's improving customer service, easing content production, speeding legal procedures, or reinventing education.¹²

III. UNDERSTANDING INTELLECTUAL PROPERTY RIGHTS AND AI

Intellectual property (IP) refers to mental creations such as inventions, literary and creative works, designs, and commercial symbols, names, and pictures. The IP system attempts to establish an environment in which creativity and innovation may flourish by striking the correct balance between the interests of inventors and the larger public interest. ¹³The need for legal protection of intellectual property are as follows:

- To promote ideas and creations that advance society's social, economic, scientific, and cultural progress by incentivizing creators and allowing them to profit economically from their discoveries.
- To provide intellectual works legal protection.
- To promote fair trading.

¹² S. VARAHASIMHAN, The workings of ChatGPT, the latest natural language processing tool, <https://www.thehindu.com/sci-tech/technology/the-workings-of-chatgpt-the-latest-natural-language-processing-tool/article66230152.ece>

¹³ unknown, What is Intellectual Property?, <https://www.wipo.int/about-ip/en/>

- Preventing unauthorized usage from infringing on authors' property rights in their creations.
- To stimulate the investment of expertise, time, money, and other resources in innovative activities that benefit society.
- Giving creators credit for their contributions¹⁴.

Copyright; Trademarks; Patents; Geographical Indications; Designs; Semiconductor Integrated Circuit Layouts; and Plant Varieties are the several types of intellectual property rights in India. Let's explore the different types of intellectual property rights (IPR) and their relevance to AI-generated content:

IV. COPYRIGHT CONCERNS IN AI-GENERATED CONTENT

The notion of originality is central to copyright law, acting as a critical factor for establishing whether works are eligible for legal protection. It has typically relied on human creativity, judgment, and authorship, making it an especially difficult issue to address when applied to AI-generated products. With its ability to develop creative output such as music, art, and literature independently, artificial intelligence poses a serious challenge to the conventional definition of originality. AI functions on the basis of algorithms, data, and computer processes, frequently without the involvement of humans in the content generation process.¹⁵ As a result, defining whether AI is an author or creator of creative works is a difficult legal challenge.

In the case of “**Genius Media Group V. Google LLC**”¹⁶, Google's use of AI to display music lyrics in search results was called into question in this case. Because Google had not obtained the appropriate permits, the court decided that its activities constituted copyright infringement. This case

¹⁴ Akarsha Bajpai, Intellectual Property Rights, ipbulletin, <https://ipbulletin.in/intellectual-property-right/>

¹⁵ Ed Burns, artificial intelligence (AI), <https://www.techtarget.com/searchenterpriseai/definition/AI-Artificial-Intelligence>

¹⁶ Genius Media Group V. Google LLC, 19-CV-7279 (MKB)

highlighted the importance of platforms that use AI to respect copyright rights, even if the AI algorithms are employed for content display.

In the case of **“*Super Cassettes Industries Ltd. V. Myspace Inc*¹⁷.”**, Myspace, a social networking site, was held accountable for hosting user-generated content that infringed on the rights of other people's music. This lawsuit highlighted platform providers' responsibilities to avoid AI-generated copyright infringement by adopting appropriate content-filtering algorithms.

The developing nature of AI and its ability to produce material calls into question copyright law's conventional definition of originality. The following are some of the most important problems and considerations:

- **Defining AI as an Author:** The question of whether AI may be recognized as an author or creator under Indian copyright law is still open. Some incidents have demonstrated the importance of viewing AI as a tool rather than a creator.
- **Algorithmic Fair Use:** AI may generate works that are very similar to existing copyrighted content, creating concerns regarding fair use, transformative works, and derivative creations.
- **Liability of Platform Providers:** Determining the accountability of platforms hosting AI-generated material in situations of copyright infringement is a difficult problem that necessitates striking a balance between promoting innovation and safeguarding intellectual property.
- **Enforcement and Detection:** Detecting AI-generated copyright infringement is difficult, and existing enforcement procedures are frequently inadequate to solve the issue¹⁸.

The idea of originality in the context of AI-generated works is a fluid and

¹⁷ Super Cassettes Industries Ltd. V. Myspace Inc., SCC Online Del 6382 (2016)

¹⁸ Akarsha Bajpai, Intellectual Property Rights, ipbulletin, <https://ipbulletin.in/intellectual-property-right/>

ever-changing aspect of Indian copyright law¹⁹. While conventional ideas of uniqueness center on human creativity, Indian case law has begun to explore the consequences of artificial intelligence. The future of copyright law in the digital era will demand a complex approach that balances the rights of human artists with the transformational potential of AI technology²⁰.

As stated by ChatGPT, while the created content may be protected by copyright, it will not be held by the AI²¹. Indeed, under European (and US) law, AI cannot possess copyright since it cannot be recognized as an author and lacks the legal personality required to hold (intangible) assets. As a result, because ChatGPT is "just" an artificial intelligence, it cannot own anything it publishes. It does, however, extend replies from the information in its database and so creates a new answer, even if it is based on an existing piece of information. This solution may be protected by copyright, but that relies on whether it can be deemed a "work" in the first place - anything that expresses the author's creative decisions. For the time being, and in accordance with OpenAI's terms of service:

OpenAI, the firm that built ChatGPT, is being sued for allegedly using copyrighted texts without permission to train its AI systems. The case, filed in federal court in San Francisco, claimed that OpenAI stole content from books without permission, without crediting or compensating the copyright holders²². This is not OpenAI's first legal battle in recent memory. Two writers have filed a complaint saying that OpenAI's ChatGPT

¹⁹ Unknown, Who owns AI-generated works? Here's what the laws say on copyright issue, India Today, <https://www.indiatoday.in/law/story/chatgpt-ai-generated-content-copyright-ownership-complexities-india-2439165-2023-09-22>

²⁰ Neha Raj & Mehnda Banda, India: Legal Implications Of AI-Created Works In India, Mondaq, <https://www.mondaq.com/india/copyright/1348418/legal-implications-of-ai-created-works-in-india>

²¹ Unknown, Who owns AI-generated works? Here's what the laws say on copyright issue, India Today, <https://www.indiatoday.in/law/story/chatgpt-ai-generated-content-copyright-ownership-complexities-india-2439165-2023-09-22>

²² Reuters, More writers sue OpenAI for copyright infringement over AI training, the hindu, <https://www.thehindu.com/sci-tech/technology/more-writers-sue-openai-copyright-infringement-ai-training/article67297792.ece>

language model stole and misused their works.

A long complaint was launched last week against OpenAI, saying that two of its AI models, ChatGPT and DALL-E, were developed without valid authorization utilizing hundreds of millions of people's data²³. OpenAI is involved in various litigation that may have an influence on the AI sector by defining key regulations concerning copyright, privacy, and data use. Anyone interested in AI should keep track of how these cases move and consider how they could lead to new laws and policies, affect how AI tech is produced, and force firms to modify how they design and deliver AI goods and services²⁴.

V. PATENT ELIGIBILITY OF AI CREATIONS

It provides innovators exclusive rights to their inventions. Artificial intelligence-generated inventions have raised concerns regarding patent eligibility and inventor ship. Not all AI-generated ideas may be patentable, especially if they lack the innovative step of a human creator²⁵.

Section 3(k) of the Indian Patent Act of 1970²⁶ clearly restricts the issuance of a patent to an Artificial Intelligence innovation. Even if there are software patents and business method patents relating to technology, the inventions generated by Artificial Intelligence are a completely other story. Machine learning, deep learning, and artificial intelligence have propelled innovation to new heights. The patent has awarded its originator a monopoly, allowing the inventor to financially exploit the innovation. Because intellectual property rules give acknowledgment for inventions as

²³ Kyle Wiggers, The current legal cases against generative AI are just the beginning, techcrunch, <https://techcrunch.com/2023/01/27/the-current-legal-cases-against-generative-ai-are-just-the-beginning/>

²⁴ Adam Uziolo, How Artificial Intelligence Will Transform Businesses, business news daily, <https://www.businessnewsdaily.com/9402-artificial-intelligence-business-trends.html>

²⁵ Shehna mahawar, Patentability of AI inventions, ipleaders, Patentability of AI inventions

²⁶ Indian Patent Act, 1970; act no. 39 of 1970; section 3(k)

a reward for the inventor's creativity. At the moment, industrialized countries employ AI software to boost their imaginative talents and to make inventions. What happens to the money and effort invested in these inventions if they are not patentable because AI was involved in their creation? In reality, AI is employed to help with prospective database and simulation for the idea²⁷.

The DABUS AI lawsuit²⁸, for example, highlighted the controversy over AI-generated inventions. The European Patent Office (EPO) refuses to issue patents, citing the importance of human innovators. This case highlights the difficulties in adapting patent law to AI-generated discoveries. DABUS was barred from being recognized as a patent inventor due to the necessity that a natural person be mentioned²⁹. Various challenges have arisen in relation to the concept of inventor ship, and more will arise in the future, necessitating changes to the legislation of these nations. Countries can band together and work together to solve such problems.

The issue of inventor ship when AI systems contribute to creative processes is a complicated topic that connects law, technology, ethics, and politics. As AI technologies improve, legal frameworks and conceptions of inventor ship will most certainly adapt to accommodate new breakthroughs while addressing the complicated problems of creativity, contribution, and accountability in the context of AI-generated inventions. This is an area where continuous legal and legislative advancements will affect the future of innovation and intellectual property rights³⁰.

²⁷ YoungJun Xo, Artificial intelligence: A powerful paradigm for scientific research, the innovation, <https://www.sciencedirect.com/science/article/pii/S2666675821001041>

²⁸ The link to case study, <https://www.ipstars.com/NewsAndAnalysis/The-latest-news-on-the-DABUS-patent-case/Index/7366>

²⁹ Renu bala rampal, & swaraj singh, Demystifying Rights Of AI Generated Inventions, livelaw, <https://www.livelaw.in/law-firms/law-firm-articles-/ai-generated-inventions-chatgpt-indian-patent-act-dabus-united-states-patent-trademark-office-european-patent-office-226394>

³⁰ Sanjay kk, Intellectual Property Rights: An Overview and Implications in Indian Markets, Legal service India, <https://www.legalserviceindia.com/legal/article-10656-intellectual-property-rights-an-overview-and-implications-in-indian-markets.html>

VI. TRADE SECRET PROTECTION FOR AI-GENERATED DATA

Trade secrets in the context of AI might include a variety of features such as proprietary algorithms and models, training data, preprocessing techniques, and deployment processes.

While trade secrets are essential for safeguarding AI-generated data, firms must also find a balance between security and cooperation³¹. Collaboration with partners, researchers, and suppliers is critical for innovation and growth, but it necessitates rigorous trade secret management via contracts and safe data exchange procedures. It is critical to secure important intellectual property and retain a competitive edge in AI research by preventing trade secret misuse. Here are some methods that businesses may take to protect their trade secrets:

- **Identify and Classify Trade Secrets:** Begin by identifying and categorizing trade secrets inside your firm. Learn what types of knowledge, data, or procedures are deemed trade secrets. This might include exclusive AI algorithms, training data, one-of-a-kind preprocessing approaches, or deployment tactics.
- **Non-Disclosure Agreements (NDAs):** Require non-disclosure agreements to be signed by workers, contractors, partners, and anyone else who has access to trade secrets. NDAs bind persons to confidentiality and can act as a deterrent to unauthorized disclosure.
- **Encryption and safe data storage:** Keep trade secrets in secure, encrypted databases or repositories. Encryption offers an extra degree of security to prevent unwanted access to sensitive data.
- **Legal Remedies and Enforcement:** If trade secrets are misused, be prepared to take legal action. Consult with legal professionals to

³¹ Shehna Mahawar, Patentability of AI inventions, pleaders, Patentability of AI inventions

learn about your rights and alternatives under trade secret and intellectual property laws in your jurisdiction.

- Regular Security Assessments: Assess your organization's security posture on a regular basis to detect vulnerabilities or gaps that may lead to trade secret misuse³².

Organizations may considerably decrease the danger of trade secret misappropriation in AI research by applying these strategies and protecting their important intellectual property. The Delhi High Court acknowledged the value of trade secrets in the legal profession in the case of *Diljeet Titus, Advocate v. Alfred A. Adebare and Ors (2006)*³³. While not directly relevant to AI, this case emphasizes the need of protecting proprietary information, which includes AI-generated trade secrets. For example, AI firms frequently regard their training data and algorithms as trade secrets. Non-disclosure agreements and other safeguards are used to protect against illegal access and reverse engineering.

ChatGPT and other AI models built by companies like as OpenAI sometimes rely on proprietary algorithms, training data, and procedures that are trade secrets. These elements are important intellectual property that gives the company a competitive advantage. To prevent illegal access, use, or disclosure of their AI technology and related data, OpenAI and similar organizations employ methods such as secure data management, access restrictions, non-disclosure agreements, and legal precautions.

It is critical to strike a balance between protection and collaboration in AI development. While protecting private technology and data promotes innovation and competition, excessive secrecy can stifle development. Open collaboration promotes knowledge sharing and speeds progress, but also necessitates ethical data and intellectual property management.

³² Unknown, How To Protect Intellectual Property For AI Inventions, parentPC, <https://www.patentpc.com/blog/how-to-protect-intellectual-property-for-ai-inventions>

³³ Diljeet Titus, *Advocate v. Alfred A. Adebare and Ors*, 2006 (32) PTC 609(del)

Finding the correct balance protects creativity, assures ethical AI research, and benefits society as a whole, allowing for both intellectual property protection and the communal pursuit of AI's revolutionary potential.

In conclusion, trade secrets are an important tool for safeguarding proprietary AI-generated data and other key AI-related information. Businesses should create strong security measures, legal agreements, and internal procedures to protect their trade secrets while encouraging innovation and cooperation within the AI ecosystem.

VII. TRADEMARK CONCERNS AND AI CREATIONS

Trademarks play an important role in preserving the branding connected with AI goods and services, such as ChatGPT. Here are some significant elements of trademarks in the context of artificial intelligence:

- **Brand awareness:** Trademarks enable users of AI goods and services create brand awareness and trust. A distinguishing trademark linked with an AI model, such as a distinct name or logo, might help it stand out from competition.
- **Identifying the Source:** Trademarks are used to identify the origin or source of AI goods and services. Based on the trademark, users may quickly recognize items linked with a specific firm or organization.
- **Infringement Protection:** Registering a trademark gives legal protection against others using a similar or identical mark in a way that may cause consumer confusion. This aids in the prevention of unlawful usage of the AI model's branding.
- **Monetization and Licensing:** Trademarks may be leased to other organizations, enabling them to utilize the trademark for certain reasons. AI developers may be able to profit from this.
- **Domain Names and Online Presence:** Trademarks can help secure domain names and establish a strong online presence. They aid in

preventing others from registering domain names that are similar to the AI model's branding.

- International Protection: Trademarks may be filed in several countries to protect AI models, guaranteeing worldwide brand uniformity and protection.

OpenAI, the group behind ChatGPT, for example, may have trademarks related with the word "ChatGPT" and its logo. These trademarks serve to safeguard the AI model's identity by preventing competitors from adopting identical names or logos that might mislead consumers. Chatbots, virtual assistants, and automated customer service, for example, can communicate with customers under distinct brand identities. Concerns about trademark infringement may occur if AI-generated material imitates well-known businesses. In the case of *Bajaj Auto Ltd. v. TVS Motor Company Ltd. (2009³⁴)*, utilizing brand names or emblems that closely resemble established trademarks might generate trademark infringement problems similar to those addressed in this decision.

For example, if an AI-generated chatbot utilizes a brand name that is close to an existing trademark, trademark infringement allegations may be filed. In AI applications, proper branding and trademark clearance are critical.

In the case of *“Bhole Baba Milk Food Industries Ltd. v. Parul Food Specialities Pvt. Ltd³⁵”* the lawsuit concerned trademark violation and dilution. It may be used to demonstrate the value of trademark protection in the context of AI-generated content and branding. The case of *“Manoj Starbucks Corporation v. Mohanraj³⁶”*, lawsuit investigated the usage of domain names that are similar to well-known brands. It may be used to discuss the relationship between trademark law and AI-generated domain

³⁴ Bajaj Auto Ltd. v. TVS Motor Company Ltd., Civil Appeal No. 6472 of 2004

³⁵ Bhole Baba Milk Food Industries Ltd. v. Parul Food Specialities Pvt. Ltd, 2011 (48) PTC 235 (DEL) DB

³⁶ Starbucks Corporation v. Mohanraj, 26 (2009) DEL 32

names.

VIII. NEED FOR MODIFICATIONS TO TRADITIONAL IP LAWS TO ACCOMMODATE AI-GENERATED CONTENT

Because of the rapid growth of artificial intelligence (AI), there is an urgent need for changes to existing intellectual property (IP) rules to accommodate AI-generated material. AI's ability to create, develop, and innovate calls into question traditional notions of authorship, ownership, and originality. Here's a look at why these changes are necessary:

- **Authorship and Ownership Challenges:** Traditional intellectual property laws are intended to assign authorship and ownership to people or legal organizations. However, AI-generated material blurs the limits of authorship. Rather than human creativity, it is frequently the output of algorithms, data, and computational processes.

Authorship must be redefined in a way that recognizes AI's involvement in content production. This may entail acknowledging AI as a "tool" while addressing the rights and obligations of its users or developers.

- **Copyright and AI-generated works:** Original literary, artistic, and creative works are protected under copyright law. However, it frequently necessitates human authorship or a minimal level of ingenuity. The challenge with AI-generated works is whether they may be termed "original," and if so, who owns the copyright.

Changes might include reconsidering the meaning of "originality" and assessing whether AI-generated works should be eligible for copyright protection and how ownership should be distributed.

- **Fair Use and Transformative AI:** Copyright law's fair use provisions allow for limited use of copyrighted content without authorization. Because AI may modify and repurpose copyrighted information, it is uncertain whether fair use applies. To accommodate AI's

transformational powers while preserving content producers' rights, courts may need to reinterpret fair use criteria.

- **Patent Law and AI-Invented Technologies:** AI systems are becoming more involved in the development of new technology. Patent law normally needs human inventors, although AI can make significant contributions. Legal structures may need to be modified to enable AI-generated innovations while still adhering to the spirit of patent law.
- **Data Ownership and AI Training Data:** AI models are trained on massive datasets gathered from diverse sources. Questions emerge around data ownership, permission, and data subjects' rights. To ensure fair use of training data and to avoid data theft, IP laws must address these challenges.
- **Ethical and moral rights:** Intellectual property regulations should also take into account the ethical and moral rights involved with AI-generated material. Deep fakes created by AI, for example, might have major ramifications for privacy and reputation, necessitating legal precautions.
- **Public Interest and Access to AI-Generated Knowledge:** It is critical to strike a balance between intellectual property protection and public interest. IP rules should guarantee that AI-generated information and discoveries serve society while also preserving the creators' and inventors' interests³⁷.

Finally, as AI becomes more entwined with creative and imaginative processes, old IP regulations must be modified to reflect this new scenario³⁸. These changes should find a balance between acknowledging AI's benefits, guaranteeing responsible AI development, and preserving

³⁷ Javeir Diaz Noci, *Artificial Intelligence Systems-Aided News and Copyright: Assessing Legal Implications for Journalism Practices*, MBDI, <https://www.mdpi.com/1999-5903/12/5/85>

³⁸ James Wilson and Paul R. Daugherty, *Collaborative Intelligence: Humans and AI Are Joining Forces*, *Harvard Business Review*, <https://hbr.org/2018/07/collaborative-intelligence-humans-and-ai-are-joining-forces>

artists', innovators', and the public's rights and interests. To overcome these difficult concerns and build a legal framework that supports innovation and ethical AI usage, policymakers, legal experts, and stakeholders must collaborate³⁹.

IX. FUTURE CONSIDERATIONS FOR AI-SPECIFIC IP REGULATIONS

Developing balanced and effective AI-related intellectual property (IP) legislation necessitates multidisciplinary initiatives that bring together experts from diverse sectors. The multidimensional character of AI and its potential to revolutionize industry and society highlight the significance of collaboration among engineers, legal experts, ethicists, politicians, and stakeholders. Here's a breakdown of the transdisciplinary activities required:

- **Legal Professionals:** Intellectual property attorneys play an important role in determining ownership, authorship, and copyright in AI-generated material and ideas. They verify that rules are consistent with current intellectual property laws and concepts.
- **AI Technologists:** AI technologists give insights into AI capabilities and limits, assisting lawmakers in developing rules that take into account the technological complexities of AI research and application.
- **Ethicists:** Ethical specialists contribute to rules that protect ethical values in artificial intelligence development, addressing challenges such as prejudice, fairness, and transparency, and assuring responsible AI use.
- **Policymakers:** Policymakers and government officials are critical in translating technical and ethical issues into enforceable rules that safeguard the public interest.

³⁹ Sara Garke, Ethical and legal challenges of artificial intelligence-driven healthcare, NCBI, <https://www.ncbi.nlm.nih.gov/pmc/articles/PMC7332220/>

- Consumer Advocates: Consumer advocacy groups advocate for policies that promote safety, privacy, and individual rights.
- International collaboration: Because AI is a global phenomenon, worldwide collaboration is essential. Collaborative initiatives aid in the creation of common standards and the avoidance of regulatory fragmentation.
- Public Engagement: Involving the public in conversations concerning AI-related intellectual property legislation fosters a diversity of opinions, develops confidence, and incorporates societal values into the legal framework.
- Interdisciplinary Committees: Creating interdisciplinary committees or task forces allows experts and stakeholders to collaborate more effectively, resulting in well-informed and balanced rules⁴⁰.

These interdisciplinary efforts are critical for addressing the complex difficulties faced by AI innovation while protecting intellectual property rights, ethical considerations, and public interests.

X. CONCLUSION

The intersection of AI and IPR creates complex difficulties that need careful research and proactive responses. The function of ChatGPT in this setting highlights the necessity to rethink traditional IPR paradigms in order to incorporate AI-generated content. Legal regimes can stimulate innovation while respecting intellectual property protection principles by resolving concerns about copyright, patents, and trade secrets. ChatGPT and comparable AI technologies call into question traditional conceptions of authorship and originality, demanding changes to copyright and patent rules. Protecting the exclusive aspects of AI models as trade secrets is critical for promoting innovation and preserving competitive advantages. Striking a balance between intellectual property protection and

⁴⁰ Unknown, How To Protect Intellectual Property For AI Inventions, parentPC, <https://www.patentpc.com/blog/how-to-protect-intellectual-property-for-ai-inventions>

responsible AI development necessitates multidisciplinary collaboration, constant regulatory innovation, and adherence to ethical norms. As AI continues to impact companies and society, a dynamic and adaptive strategy to IPR is required to properly traverse this shifting terrain. As AI advances, the conversation around AI and IPR must change to maintain a peaceful cohabitation of technology and legal systems.