

ELSTED STATES TO SECOND THE PARTY OF THE PROPERTY OF THE PROPE

(NAACREAGGE MINIE (GEO LEGISALE)

(Affiliated to Remarkles State Law University, Hubballi GRecognized by BCL, Delhi)
[Managed by ISDME Society 6]

Edby Shri Dharmasthala Manjunatheahwara Education Society (E) Uffice Dollar

Resident Dr. D. Veerende Elegrate

C

Conference Proceedings of One-Day National Senfatron

RIFICIAL INTIGUES AND ITS IMPACTS ONIER

(Peer Reviewed)

ISBN Nos 978-98-3085-950-7

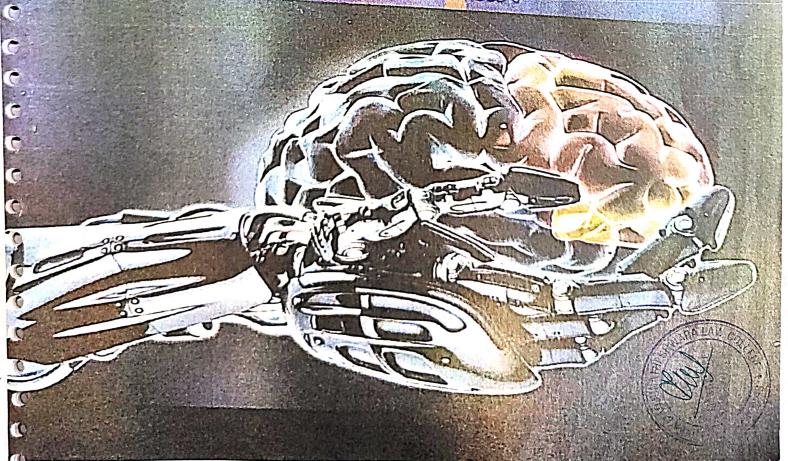


Table of Contents

Title of the Article & Authors	Page No
Artificial intelligence and copyright laws in India: Issues and challenges Dr. Sathish K. S	1
Impact of artificial intelligence on data privacy Dr. Rashmi K. S	10
Review on artificial intelligence and machine learning technologies: It's applic Dr. S. R. Swarnalatha & Prof. Jyothi Reddy	cations 18
Navigating Change: The Role of Government in Addressing AI- Induced Unemployment in India Mr. Poornesh M & Mr. Roopesh	25
Artificial Intelligence and its impact on IPR Smt. Revathi Hegde	33
Competency of AI equivalent to human intellect in the administration of justic A critical analysis Mr. Rayan Fernandes & Adv. Nagaraj Krapakar Hegde	e: 43
Exploring the intersection of Artificial Intelligence and IPR with Special refere Patent and Copy Right Ms. Shrilaxmi	ence to 49
Patenting AI algorithms Mr. Prajwal S.	53
Decoding the Impact: A Comprehensive Literature Review on Understanding the Implications of AI on Indian Unemployment Mr. Roopesh & Mr. Poornesh M.	60
Code and Creativity: Unraveling the Copyright Conundrum in Al Creations Dr. Ravindra K. Rajput	SATULARA CA
An analysis on the impact of artificial intelligence on copyright law Dr. Shubhalakshmi P.	ZVANTANIAN Z
Artificial intelligence :A Growing Concern for Humanity's Future Dr. Annapoorna Shet & Mr. Anantha Padmanabha Pai	82 VANTEAMS



Title of the Article & Authors

	Page No
Legal status of artificial intelligence in India with reference to copyright and	SCN0
Legal status of artificial intelligence in India with reference to copyright and po Dr. Chandralekha V & Mr. Shivashankar	ilent laws 93
Unboxing Right to Privacy in the Era of Artificial Intelligence	5
Mr. Karthik Anand & Ms. Sreelakshmi S. N.	104
Artificial Intelligence and Intellectual Property - Issues and Concern	i au
Dr. Ashwini P. & Ms. Shravya Rao	115
Navigating Trademark Law in the age of artificial intelligence: Impact on con	sumers 122
Ms. Kavya & Ms. Deepthi G. Bhat	
Impacts of Artificial Intelligence on IPR	130
Ms. Arya M.	Phin a m
An analysis on survival of human Intelligence in the combat of artificial intel Ms. Shushravya & Mr. Kiran N.	ligence 135
Intellectual Property Rights in the Era of Artificial Intelligence (AI) Mr. Vivek M. & Mr. V. Nandagopala Bhat	142
Artificial intelligence and unemployment	150
Ms. Anjana K. & Ms. Keerthana V.	
DABUS: An Artificial Intelligence: A new challenge for patents	155
Mr. Jeevan Lancy Pereira & Mrs. Asheema Evita Dsouza	
Artificial intelligence and intellectual property Rights	161
Ms. Soumya Bharathesh Shetti & Ms. Rakshitha K.	
As. Soumya Bharainesh Sheili & 143. 2000	166
Artificial intelligence and Right to Privacy	
Ms. Gowri Manalan K & Ms. A. Madhumitha	
rtificial intelligence, Metaverse, And the future of Blockchain in IP Security;	172
Legal Analysis As Kutagulla Koong Paval & Mc Sangoetha P. G.	MAN CO
As. Kutagulla Koena Rayal & Ms. Sangeetha R. G	200
rtificial intelligence and the future of legal profession Ar. Vishnu Bharathi S. & Ms. Yashika M. Jain	7/180

ARTIFICIAL INTELLIGENCE AND INTELLECTUAL PROPERTY - ISSUES AND CONCERN

Dr. Ashwini P. * Ms. Shravya Rao **

Abstract
Early philosophers predicted that machines would eventually outperform humans in
Computer technology strengthened this perspective. Early philosophic Technology strengthened this perspective, and now real intelligence. Computer technology capabilities. In the years are intelligence. only are learning capabilities. In the years since its inception, machines and robots are learning too from a starling too best and robots. machines and research (AI) has grown from a starling technology to one of the most artificial intelligence (AI) has grown from a starling technology to one of the most promising. Using data analysis and user preference patterns to achieve the best promising. outcome in the market is all part of the machine learning process. Al's possible outcome in the growing need to manipulated. possible of the growing need to manipulated and organize vast amounts utility is necessitated by the growing need to manipulated and organize vast amounts

Artificial Intelligence (AI) is expanding at an exponential rate in the entire world. The issue of IP management in AI is brought up by this boom. AI in IPR is like a two face of the same coin, where its having both pros and cons, for instance in certain aspects, it will seem advantageous in areas like patents and patent search engines, accurate and relevant research, and providing a way to categorize inventions and concepts. However, because AI gives inventors access to other patents that are similar to their own, it may end up being a threat to creativity and growth, two things that are at the core of intellectual property rights.

The debates and challenges surrounding copyrights, patents, and other intellectual property matters are still being developed in the field of artificial intelligence (AI), one of the rapidly evolving areas of technology and law. The main point of contention is the relative importance of human labour versus AI generated resources. This paper mainly focuses on issues or challenges faced by AI and IPR.

Keywords: AI Algorithms, DABUS, Intermediary, Ethical AI, Training Data.

Introduction

Artificial Intelligence is a termwhich seems like everyone familiar but on the other hand it is also a mystery in public debate. One of the reasons for the mystery of AI is broad see broad scoop of AI and its application in the field of technologies and techniques

Assistant Professor in Law., SDM Law College, Mangaluru Student., IV B.A.LL.B., SDM Law College, Mangaluru



which enables machines to perform task that typically require human intelligence which enables machines to perform task that typically require human intelligence which enables machines to perform task that typically require human intelligence which enables machines to perform task that typically require human intelligence which enables machines to perform task that typically require human intelligence which enables machines to perform task that typically require human intelligence which enables machines to perform task that typically require human intelligence which enables machines to perform task that typically require human intelligence which enables machines to perform task that typically require human intelligence which enables machines to perform task that typically require human intelligence which enables machines to perform task that typically require human intelligence which enables machines to perform task that typically require human intelligence which enables machines to perform the performance of the performance which enables machines to perform the performance which enables machines to perform the performance which enables machines to perform the performance which is the performance of the performance of the performance which is the performance of which enables machines to perform uses, speech and any learning from data this task may be recognition of images, speech and any learning from data this task may be recognition of images, speech and any learning from data which enables macrimition of images, which enables macrimition of images, the task may be recognition of unknowingly in our daily lives, that this task may be recognition of that may be Instagram which shows the have been using Al knowingly or that may be Instagram which shows the have been using Google search or that may be Instagram which shows the have been using Google search or that may be Instagram which shows the have been using Google search or that may be Instagram which shows the have been using Google search or that may be Instagram which shows the have been using Google search or that may be Instagram which shows the have been using Google search or that may be Instagram which shows the have been using Google search or that may be Instagram which shows the have been using Google search or that may be Instagram which shows the have been using Google search or that may be Instagram which shows the have been using Google search or that may be Instagram which shows the have been using Google search or the have been using Google search or the same than the have been using Google search or the same that the have been using Google search or the same than the have been using Google search or the same than the s this task may be recent views in the app. Major developments have been using Google search or that may be Instagram which shows the have been using Google search or that may be Instagram which shows the have been using Google search or that may be Instagram which shows the have been using Google search or that may be Instagram which shows the have been using Google search or that may be Instagram which shows the have been using Google search or that may be Instagram which shows the have been using Google search or that may be Instagram which shows the have been using Google search or that may be Instagram which shows the have been using Google search or that may be Instagram which shows the have been using Google search or that may be Instagram which shows that have been using Google search or that may be Instagram which shows the have been using Google search or that may be Instagram which shows the have been using Google search or that may be Instagram which shows the have been using Google search or that may be Instagram which shows the have been using Google search or the hard of the hard or We have been using Google search or that may be fastest way of using Google search or the app. Major developments have so fastest way of using Google search views in the app. Major developments have occurred fastest way of using Google search or that may be fastest way of using Google search or that may be fastest way of using Google search or that may be fastest way of using Google search or that may be fastest way of using Google search or that may be fastest way of using Google search or that may be fastest way of using Google search or that may be fastest way of using Google search or that may be fastest way of using Google search or that may be fastest way of using Google search or that may be fastest way of using Google search or that may be fastest way of using Google search or that may be fastest way of using Google search or the app. Major developments have so that the fastest way of using Google search or the app. Major developments have be fastest way of using Google search or the app. Major developments have be fastest way of using Google search or the app. Major developments have been using the fastest way of using Google search or the app. Major developments have been using the fastest way of using Google search or the app. Major developments have been used to the fastest way of using Google search or the app. Major developments have been used to the fastest way of using Google search or the app. Major developments have been used to the fastest way of using Google search or the app. Major developments have been used to the fastest way of using Google search or the fastest way of using fastest way of using some fastest way of usi interests based on your interests based on your search, driven by a grown read and interpret text in a manner in the last four to five years, which now read and interpret text in a manner which is known as Generative AI, which now read and interpret text in a manner which is known as Generative AI, as significant tool. The quick devel in the last four to 100 and a forestive AI, which is known as Generative AI, which is known as Generative AI is a technology that has the potential to revolution which is known intelligence. AI is a technology that has the potential to revolution in similar to human intelligence as significant tool. The quick development of similar to human intelligence as concerns regarding the Intellectual D which is known as intelligence. All is a technically tool. The quick development of similar to human intelligence as significant tool. The quick development of a many industries. It has emerged as significant tool. The quick development of All many industries. It has emerged as significant tool. The quick development of All many industries. It has emerged as significant tool. The quick development of All many industries. It has emerged as significant tool. The quick development of All many industries. It has emerged as significant tool. The quick development of All many industries. It has emerged as significant tool. The quick development of All many industries. It has emerged as significant tool. The quick development of All many industries. It has emerged as significant tool. The quick development of All many industries. It has emerged as significant tool. The quick development of All many industries. It has emerged as significant tools are also as a significant tool and the property of All many industries. It has emerged as significant tools. similar to number. It has emerged as significant of the Intellectual Property of All many industries. It has emerged as of the many industries and the many industries. It has emerged as of the many industries and the many industries are of the many industries. It has emerged as of the many industries and the many industries are of the many industries and the many industries are of the many industries and the many industries are of the many industries. It has emerged as of the many industries are of the many industries and the many industries are of the many industrie many industry number of questions and contents and property Right brings up number of questions and contents questions regarding legal issues as Right brings up number of property Right brings up number of questions and contents questions regarding legal issues as well at the privacy (data protection) of users, ownership of the usership of the privacy (data protection) of usership of the users brings up number of Al in IFA (data protection) of users, ownership of collent chical issues, whether the privacy (data protection) of users, ownership of collent chical issues, whether the privacy (data protection) of users, ownership of collent chical issues, whether the privacy (data protection) of users, ownership of collent chical issues, whether the privacy (data protection) of users, ownership of collent chical issues, whether the privacy (data protection) of users, ownership of collent chical issues, whether the privacy (data protection) of users, ownership of collent chical issues, whether the privacy (data protection) of users, ownership of collent chical issues, whether the privacy (data protection) of users, ownership of collent chical issues, whether the privacy (data protection) of users, ownership of collent chical issues, whether the privacy (data protection) of users, ownership of collent chical issues, whether the privacy (data protection) of users, ownership of collent chical issues, whether the privacy (data protection) of users, ownership of collent chical issues, whether the privacy (data protection) of users, ownership of collent chical issues, whether the privacy (data protection) of users, ownership of users, ownership of users, ownership of usership of use emical issues, whether the privacy (content of content which is generated by AI protected. What will be future of AI, how it will work and challenges that faced by AI in IPR, what will be future of AI, how it will work and challenges that faced by AI in IPR. what will be the legal status of AI in IPR.

What is AI in IPR?

What is Al III II A.

The term Artificial intelligence coined by John McCarthy in the year 1956 and he The term Artificial intelligence and engineering of making intelligent machines. To defined Al as "the science and engineering intelligent must be defined." defined AI as "the science and chighier intelligent must be defined, the ability to consider machine as "intelligent" the term intelligent must be defined, the ability to consider machine as all the complicated challenges draw connection and make generalisation can all be solve complicated charlesges considered intelligence. Computer science, physiology, philosophy are all used to create Artificial Intelligence.

Artificial Intelligence means work done by a machine without Human involvement machine can be interpreted as Computer. Artificial intelligence aims to enable computers to perform the tasks that human mind can do. It involves psychological skills such as association, motor, perception, prediction, control, planning that is to achieve human goal3. Practical application of AI found in the home, cars, hospitals, banks, internet which includes Internet of Things (IOT). The term Internet of Things refers to the network of actual physical object, that are connected with sensors, software, and other technologies as to communicate and share data with other internet connected devices and other systems. These electronic devices vary from ordinary home appliances to highly advanced industrial appliances4.

Al Boon or Bane? India Today. Special issue - future trends. Volume 49 - number 3. 15 January 2024. Page No. 6

2014. Page No. 6
Asshara Joshi, Gautham Mishra. Artificial Intelligence. 26 February 2010. https://dl.acm.org/doi/10.1145/1741906.1742236#:-:text=inx201956x2Cx20John%20McCarthy%20who, engineering %20ofx20making%20intelligent%20machings. Last visited on 18th Feb 2024

2016-07-01-

Margaret A. Boden. Al: its nature and future. Oxford University Press, Incorporated. 2016-07-01. https://ebox.central.proquest.com/lib/inflibnet-ebooks/reader.action?dociD=4545415, last Washington 18 Feb 2024

What is internet of Things (ioT). Oracle. https://www.oracle.com/in/internet-of-things/what-is-iot/#:-:text-TheX20internetX20ofX20ThingsX20(ioT)X20describesX20theX20inetWorkX 20ofX 20physical, andX20systemsX20overX20theX20internet. Last visited on 18 Feb 2024

Al in Intellectual Property Rights means the applicability of Artificial Intelligence Al in Intellectual Al in Intellectual Intelligence and technologies in the aspects of enforcing, managing and protecting techniques and Property Rights like patents, copyrights, trademarks, trademar techniques and teerty Rights like patents, copyrights, trademarks, trade protecting intellectual Property Rights like patents, copyrights, trademarks, trade recreix Al technicated Property Rights have patents, copyrights, trademarks, trade secrets. At inclosing shave the potential to radically improve the effectiveness preciseness of technologies have the property Rights and in enforcing them and it gives enterprises managing intellectual Property Rights and in enforcing them and it gives enterprises shilling to safeguard their IP in the current scenario of quick charging the safeguard. managing Interest and it give enterprises the ability to safeguard their IP in the current scenario of quick changing digital landscape. provisions relating to AI in IPR

Provisions

As there is a concern that as technology advances at a real of the result of the results and the results are reported in the results are results. As there is a concern that as technology advances at a rapid pace, the legal matter. There is a struggle to keep up. But perhaps this is not accurate to reality. The system may strugged work in India can be interpreted strictly or purposefully to adapt current legal training circumstances and serve as a regulatory tool. For example, there are to changing clauses Indian Penal Code, 1860 which superseded by the Bhartiya Nyaya various chauses (BNS) 2023, it contains several provisions that can be used to combat sand that harm individuals, their privacy and the Sanhita (1913).

Sanhit Technology Guidelines of 2021 which tackle several negative effects, including Intermedian, manipulated or forged imagery and misinformation. Provisions thereunder deepfakes, manipulated or forged imagery and misinformation. Provisions thereunder such as sexually explicit content, and 67B child pornography IT Act may be invoked based on the facts of the cases.

Another area of law that has been affected by AI is IPR claims. The numerous cases related to AI in US serving as a model for the development of AI Jurisprudence India. In Thaler V. Perlmutter (2023)6, the US District Court upheld the Copyright registry's refusal to register an AI generated painting. Dr Thaler's filing naming the AI system DABUS⁷ as inventor was upheld by an Australian court. This case will certainly impact other copyright claims too, including for source code. In John Doe et al V. GitHub Inc et al's before the California Court, which contests the right of Microsoft, GitHub and OpenAI to use open-source codes to train AI models and claims that the codes generated through AI, therefore, violate the terms of licencing is likely to impact the very process of AI generated content. (Open-source software or code - Software that is provided under a licence that allows users to study, alter and share the program and its source code with anybody for any purpose is known as

The Information Technology Act, 2000 (as amended). Intermediary Guidelines of 2021.

Thaler v. Perimutter, Case 1:22-cv-01564-BAH (D.D.C., Aug. 18, 2023). https://litantlaworg/ 2023/12/11/case-summary-and-review-thaler-v-perimutter/#post-61801-footnote-ref-0, last visited on a Each 2024

Thaler v. Commissioner of Patents (2021) FCA 879, https://lisartlaw.org/2023/12/11/case-thaler v. Commissioner of Patents (2021) FCA 879, https://lisartlaw.org/2023/12/11/case-thaler-v-perimutter/#post-61801-footnote-ref-, last visited on 18 Feb 2024 John Doe et al V. GitHub Inc et al 22-cv-06823- JST, https://caselaw.findlaw.com/court/us-dis-tr-n-d-cal/2200403 html | ast visited on 18 Feb 2024 crt-n-d-cal/2200493.html. Last visited on 18 Feb 2024.

Open-source software. This type of software is licenced under a copyright hold of the control of Open-source software. This type of software is a cooperative, transparent whole that is open source can be created in a cooperative, transparent ways, software that is open source can be created in a cooperative, transparent ways, software that is open source can be created in a cooperative, transparent ways, so the cooperative transparent ways documents, like those of any other country, are primarily for software that is open source can be created in a cooperative, transparent ways, and the cooperative transparent ways, Open-source software.

Open-source software that is open source can be created in the software that is open source can be created in the software that is open source can be created in the software that is open source can be created in the software that is open source can be created in the software that is open source can be created in the software that is open source can be created in the software that is open source can be created in the source country, are primarily focused to some source can be created in the software that is open source can be created in the software that is open source can be created in the source country, are primarily focused to some source can be created in the source country, are primarily focused to some source can be created in the source country, are primarily focused to some source can be created in the source country, are primarily focused to some source can be created in the source country, are primarily focused to some source can be created in the source country, are primarily focused to some source country, are primarily focused to some source country, and the source country are primarily focused to some source country are primarily focused to some source country, and the source country are primarily focused to some source coun Software that is open seen slike those of any other country, are primarily focused of India's strategy documents, like those of any other country, are primarily focused of India's strategy documents, like those of any other country, are primarily focused of India's strategy documents, like those of any other country, are primarily focused to strategy for Artificial Intelligence of any other country, are primarily focused to the strategy of Artificial Intelligence of any other country, are primarily focused to the strategy of the strateg India's strategy documental line in a new ancements. The NITI Asyon the conomic benefits of utilizing technology and its not make the conomic benefits of utilizing technology and information technology, up the conomic benefits of utilizing technology, up the conomic benefits of utilizing technology, up the conomic benefits of electronics and information technology, up to 2018 page 3022 and the ministry of electronics and under the haster of the conomic benefits of the conomic benef the economic benchts of the traction of all adaptation under the hashlag #Alforduk, 2021 and 2022 and the ministry of electronics and information technology's part to 2022 and the ministry of or Al adaptation under the hashlag #Alforduk, 2021 and 2022 and the ministry of electronics and information technology's part and 2022 and the ministry of electronics and under the hashlag #Alforduk, 2021 and 2022 and the ministry of electronics and information under the hashlag #Alforduk, 2021 and 2022 and the ministry of electronics and information under the hashlag #Alforduk, 2021 and 2022 and the ministry of electronics and information under the hashlag #Alforduk, 2021 and 2022 and the ministry of electronics and information under the hashlag #Alforduk, 2021 and 2022 and the ministry of electronics and information technology's part in the control of the part in t partreport on Al. Photo artificial intelligence (AI) is first to stay and will advance it seems evident that artificial intelligence has become increasingly apparent over the civilization through a variety of application cases. The necessity of appropriately its seems evident that artificial intelligence has become increasingly apparent over the vicilization artificial intelligence in a stay and the property of It seems evident that a variety of application cases. The necessity of appropriately evilization through a variety of application contains a variety of applications are selected in the seems of appropriately evilization through a variety of application or violating individual rights, corporate implementing artificial intelligence has become increasingly application over the seems of the seems civilization through a civilization through a precision of the law must be a major factor. Lead it is crucial to do so without impairing or violating individual rights, corporate and it is crucial to do so without impairing or violating individual rights, corporate and it is crucial to do so without impairing or violating law must be a major factor. Lead it is crucial to do so without impairing or violating law must be a major factor. Lead it is crucial to do so without impairing or violating individual rights, corporate interests. To make this possible, the law must be a major factor. Lead in the law must be a major factor. implementing annual rights, corporate and it is crucial to do so without impairing or violating must be a major factor. India rights, or state interests. To make this possible, the law must be a major factor. India rights, or state interests. To make this possible a presence in the legal landscape by creating laws that not a right to grabilish a presence in the legal landscape by creating laws that not a right to grabilish a presence in the legal landscape. and it is crucial to the state interests. To make this possible, all of the state interests. To make this possible, all of the state interests. To make this possible, and state interests. To make this possible, and state interests. To make this possible, and it is crucial to the state interests. To make this possible, and it is crucial to the state interests. To make this possible, and it is crucial to the state interests. To make this possible, and it is crucial to the state interests. To make this possible, and it is crucial to the state interests. To make this possible, and it is crucial to the state interests. To make this possible, and it is crucial to the state interests. To make this possible, and it is crucial to the state interests. To make this possible, and it is crucial to the state interests. To make this possible, and it is crucial to the state interests. To make this possible, and it is crucial to the state interests. To make this possible, and it is crucial to the state interests. To make this possible, and it is crucial to the state interests. To make this possible, and it is crucial to the state interests. To make this possible, and it is crucial to the state interests. To make this possible, and it is crucial to the state interests. To make this possible, and it is crucial to the state interests. To make this possible in the state interests and it is crucial to the state interests. To make this possible in the state interests are crucial to the state interests and it is crucial to the state interests and it is crucial to the state interests. To make this possible in the state interests are crucial to the state interests and it is crucial to the state interests and it is crucial to the state interests are crucial to the state interests and it is crucial to the state interests are crucial to the state interests are crucial to the state interests and it is crucial to the state interests are crucial to the state interests and it is crucial to the state interests are crucial to the state interests rights, or state and rust they need to develop and prosper. 12

med stores and rust they need to develop and prosper. 12 meet security and protective standards out also provide predictability and trust they need to develop and prosper. 12

Issues with regard to AI in IPR

Some of the issues with regard to AI in IPR:

Some of the issues with regular to Algebraid inventions. Conventional who 1. Ownership and Inventorship. And Inventorship and Inven invented what when it comes to ru-general intelligence (AI) is becoming more normally needs human inventors, but artificial intelligence (AI) is becoming more normally needs human inventors, our actions. Concerns are raised over who should and more integrated into the creative process. Concerns are raised over who should and more integrated into the clean possess the intellectual property rights to ideas created by AI and whether AI is capable of becoming an inventor.

2. Copyright and Creative works: The potential of AI to produce literary, artistic, and musical creations creates concerns over copyright ownership. If AI-generated works are to be protected by a copyright, who should be credited as the author? Furthermore, problems like content scraping and automated content generation that arise from AI systems violating copyrighted content must be resolved.

3. Data Ownership and Access: Large volumes of data are frequently needed for Al's operation and training. When sensitive or proprietary data is involved, ownership, access, and licensing issues become more prevalent. In this environment, figuring out the rights and duties of users, developers of AI, and data suppliers is essential.

Patentability and Prior Art: Artificial Intelligence is developing quickly, resulting and discoveries and advancements. But it can be difficult to decide is now across the patentable, particularly when prior and the decide is a sign as a sign is patentable, particularly when prior and the decide is a sign in the patentable. A. Patentability and Prior Advancements. But it can be difficult to decide it an Alling in new invention is patentable, particularly when prior art and the decide it an Allington invention in account. To appropriately avaluate the degree of the control of o I rate discoveries and advancements. But it can be difficult to decide it in Al in new invention is patentable, particularly when prior art and the decide it in Al related invention are taken into account. To appropriately evaluate patent appropr in new invention is paternated, partially when prior art and the degree of a prior art and the degree of the related invention are taken into account. To appropriately evaluate patent applications creativity are taken into account. To appropriately evaluate patent applications of the relativity of the relativity and the relativity of related are taken and appropriately evaluated patent appropriately to artificial intelligence, patent offices must modify their review procedure pertaining to artificial intelligence, patent offices must modify their review procedure pertaining to artificial intelligence and Confidential Information: Trade secrets and Confidential Information: pertaining to arrive and Confidential Information: Trade secrets and private date of Trade Secret and Confidential Information: Trade secrets and private date of Trade Secrets and private date of Trade Secrets and Private date of Trade Secrets and Secrets and Private date of Trade Secrets of Trade Secrets and Secrets and Private date of Trade Secrets of Trade S 5. Trade Secret and private data in France secrets and private data in be analysed, safeguarded, or improperly obtained using Al technologies. Businesses be a many difficulties in protecting trade secrets from Al-enabled threats: be analysed, saleguates in protecting trade secrets from AI-enabled threats including have many difficulties in protecting and data breaches. have many discretise engineering and data breaches.

algorithmic reversible and Bias Concerns: IPR concerns and ethical challenges related to Al, 6. Ethical accountability, transparency, and justice, interact. Al algorithmic reversible and the second 6. Ethical and Diag.
6. Ethica such as accountable.

such as accountable.

such as accountable unfair advantages in intellectual property disputes or biased may produce unfair advantages in intellectual property disputes or biased interpretable. biased may produce these concerns, ethical AI development and discriminatory results. To reduce these concerns, ethical AI development and discriminatory are crucial. (Ethical AI - The creation and application discriminatory discriminatory and application are crucial. (Ethical AI - The creation and application of artificial application experiments with an emphasis on justice, accountability than the creation and application of artificial applications are crucial. application are with an emphasis on justice, accountability, transparency, and intelligence systems with an emphasis on justice, accountability, transparency, and intelligence for human values is known as ethical AL.¹³) intelligent for human values is known as ethical AL^u)

respect 10.

7. Licensing and Technology Transfer: Intellectual property rights, such as patents, 7. Licensing and trade secrets, must be carefully taken into account when negotiating copyrights, and trade secrets must be carefully taken into account when negotiating copyrights, and technology transfer agreements incorporating AI technologies. Because licensing and technologies evolving it can be difficult to the control of the control licensing and solving is always evolving, it can be difficult to determine the best license AI technology and liability policies for innovations connected to it.

8. Standards and Interoperability: It is necessary to address intellectual property 8. Station of the state of the rights concerning in order to develop technical standards for AI systems. Fostering the development and use of Al requires striking a balance between the need for innovation and interoperabili and the protection of intellectual property rights. (Interoperability - 'The degree which two products, programs, etc. may be used together, or the quality of be able to be used together' is the definition of interoperability. It describes how tw more systems or components can use or analyse the information that has exchanged, as well as exchange information. 14)

Suggestions

Arth

While utilizing the AI in the context of IPR several measures can be taken to co and ensure the effective and ethical use of AI.

Some of the concerns that can be taken while using AI in IPR:

1. Transparency and Accountability: Taking steps to ensure that Al syste in IPR procedures are developed and deployed transparently. Providedoct

Open-Source Software, https://en.wikipedia.org/wiki/Open-source_software, Last visited on 18

https://www.nitl.gov.in/sites/default/files/2023-03/National-Strategy-for-Artificial-intelligence of the wind of Artificial-intelligence of the Artificial-Intelligence.pdf. last visited on 18 Feb 2024.

https://www.itl.gov.in/sites/default/files/2021-02/Responsible-AI-22022021.pdf. Last visited on 18 Feb 2024.

Al Boon or Bane? India Today. Special Issue - future trends. Volume 49 - number 3. 15 January 2024. Page No. 42. 41.

Ethical Al. https://www.holistical.com/blog/what-is-ethical-ais-:test-Eti refers%20to%20the, and%20respect%20for%20human%20values. Last visited on 131

Interoperability. https://indiaal.gov.in/ai-standards/interoperability. Last validad

of the methods, data sources and techniques used to improve accountability and techniques used to improve accountability and the methods, data sources and techniques used to improve accountability and the methods, data sources and techniques used to improve accountability and the methods are accountable and the method accountability accountability and the method accountability accountability and the method accountability accou of the methous, make audits and review easier.

make audits and review easier.

Ethical Guidelines and Frameworks: Considering the moral standards and legal 2. Ethical Guidelines and suggestion IP. To reduce potential biases and ethical has a simplement regulations that placements are contained implement regulations. make audits and Frameworks: Considering and Indian standards and legal 2. Ethical Guidelines and Frameworks regulating Al usage in IP. To reduce potential biases and ethical hazards frameworks regulating Al usage in IP. To reduce potential biases and ethical hazards frameworks regulating Al usage in IP. To reduce potential biases and ethical hazards frameworks regulations develop and implement regulations that place high notation 2. Ethical Guiucinia Al usage in IP. 10 reduce Potential orases and ethical hazarda frameworks regulating Al usage in IP. 10 reduce Potential orases and ethical hazarda frameworks regulating Al usage in IP. 10 reduce Potential orases and ethical hazarda frameworks regulations that place high priority related to Al algorithms, develop and implement regulations that place high priority related to Al algorithms, against and non-discrimination.

on fainces, openness and non-discrimination. related to Al Scientific on fairness, openness and non-discrimination on fairness, openness and non-discrimination on fairness, openness and security: To safeguard sensitive data utilized in Al driven lpg.

3. Data privacy and Security: In place strong data privacy and security measures. To provide the privacy and security measures. on named and Security: To sateguard solution of the annual active of the IPR 3. Data privacy and Security measures. To prevent procedures, set in place strong data privacy and private data, adhere to any analysis of personal and private data, adhere to any analysis of personal and private data. 3. Data private data, set in place strong data private data, adhere to any data unauthorized access or misuse of personal and private data, adhere to any data unauthorized access or misuse of personal and private data, adhere to any data unauthorized access or misuse of personal and private data, adhere to any data unauthorized access or misuse of personal and private data, adhere to any data unauthorized access or misuse of personal and private data, adhere to any data unauthorized access or misuse of personal and private data, adhere to any data unauthorized access or misuse of personal and private data, adhere to any data unauthorized access or misuse of personal and private data.

protection legislation and standards. protection legislation and statement on: To guarantee accountability and reduce 4. Human Oversight and Intervention: to guarantee accountability and reduce 4. Human Oversight and Intervention the possibility of biases or errors, integrate human monitoring and intervention the possibility of biases or errors, integrate human specialists over the possibility of biases or errors. When necessary human specialists over the possibility of biases or errors and the possibility of biases or errors. the possibility of biases or errors, integrated research human specialists ought to be methods into AI system used for IPR. When necessary human specialists ought to be able to examine and modify AI generated results.

able to examine and invention: Protecting AI related inventions IPR through 5. Intellectual Property Troteches. Evaluate the uniqueness and patentability of trade secrets, copyrights and patents. AI generated inventions by conducting in depth IP searches and analysis.

6. Training Data Quality and Diversity: Assuring the representativeness, variety o. Training Data Quality of the training data that goes into creating models for IPR applications. Avoid skewed or biased datasets that could create inconsistent results or reinforce inequality. (Training Data - An Al model or machine learning algorithms is taught to make correct decisions using training data, which is labelled data. To develop a model for an autonomous vehicle, for instance, need training data that identifies cars, people and traffic signs. This would involve labelling photos and videos.)15

7. Regular Audits and Assessment: Evaluating AI system used in IPR on regular basis to make sure they work well, are accurate and adhere to the ethical standards. Resolving any problems or inconsistencies found during audits as soon as possible.

8. Education and Training: Educating and training those involved in the creation, application and usage of AI in IPR. Encourage the use of ethical concerns, legal requirements to improve the deployment of AI responsibly.

9. Cross-disciplinary Collaboration: Addressing the complex issues at the nexus of AI and IPR, encouraging cooperation amongst a wide range of stakeholders, including engineers. including engineers, legal experts, ethicists and policymakers. Combine resources and experience to create winning plans and solutions.

10. Continuous Improvement and Adaption: Adopting the culture of constant adaption and improvement and Adaption: adaption and improvement to stay up with changing regulatory environments and AI technological breakthroughs. At technological breakthroughs. Keeping up with new advancements in AI in 1PR regulations and emerging treads regulations and emerging trends. https://appen.com/solution

Addressing all these concerns or measures requires multidisciplinary approach up to the policymakers, ethicists, technologists, legal experts and mixer Addressing an analysis and dialogues are essential to develop effective stake tolders involves policyman dialogues are essential to develop effective strategies and Collaborations and dialogues are essential to develop effective strategies and context of IPR. Collaboration for managing AI in the context of IPR.

Conclusion, there are advantages and disadvantages to the incorporation of Al In conclusion, the incorporation of Al with IPR, especially while considering India. India one of the top centres of innovation with IPR, especially worldwide, is well-positioned to use Al and the incorporation of Al with IPK, especially worldwide, is well-positioned to use AI to improve its IPR and technology and technology are activity and safeguard IP. But in order to fully utilize environment.

Al in IPR, a number of important issues need to be resolved.

All in Market and foremost, India has to set precise rules and laws controlling the application First and Ioleanness. This will entails resolving concerns about who owns and is of AI to IPR procedures. This will entails resolving concerns about who owns and is of Al to inventior of inventions produced by AI, guaranteeing accountability and the inventor of inventions and protecting the the inventor in AI algorithms and protecting the security and privacy data.

In order to create thorough framework for responsible deployment of AI in IPR, the takeholders, legislators, legal professionals, engineers and industrialists need to cooperate together. To standardise norms and laws across jurisdictions, this cooperation should also include international partners.

For professional involved in the creation, application and usage of AI in IPR, India has to make investments in educational and training programs to increase capacity and awareness. This includes giving legal professionals, how to handle tricky moral and legal dilemmas brought on by AI driven advancements.

India should support AI research and innovation that is suited to the unique requirements and difficulties of the IPR sector. Creating AI tools and solutions to improve copyright protection, automate trademark analysis and expedite patent searches.

Ultimately, India can open up doors for economic growth, technical innovation and global competitiveness by integrating AI in IPR with a strategic and forward-thinking strategy. India has potential to become a pioneer in utilising AI to safeguard and advance IPR in the digital era if the correct laws, partnerships and financial commitments are put in place.