



Artificial Intelligence Applications and Its Socio-legal Pitfalls

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Abstract:

Today we are living in the fourth phase of the Industrial Revolution also sometimes called as Digital Revolution which is known for its application tools like Artificial Intelligence (hereafter AI) Robotics, Crypto-currency, Augmented Reality, Virtual Reality, etc. These varied tools are now becoming an essential part of our daily life. All these tools especially Artificial Intelligence are being used to solve many problems related to Healthcare, Education, Agriculture, and Legal Fields, as far as their use for solving varied problems is considered. This paper explores the varied aspects of futuristic technology of Artificial Intelligence as a tool that is already influencing several aspects of our society from interpersonal relations to law and culture as a whole. It also focuses on the direct and indirect effects of this technology in general and in the law field specifically. In this paper, the researcher will critically analyze the challenges of AI which include legal and ethical issues like cyber security, bias and discrimination, unfairness, legal personhood, privacy and data breaching issues, liability, algorithmic transparency, robotics, etc. In addition, it will examine the socio-legal concerns of Artificial Intelligence. More precisely, this paper scrutinizes the uses of AI tools in the legal arena also which are being used nowadays without much required comprehensive assessment of the potential consequences and limitations of many such tools.

Here an attempt has been made to investigate how the adoption of AI by organizations and legal institutions will employ ethical principles which will focus on the welfare of society. Along with all these prospects, this paper also explores what other social challenges would be there in the coming future due to the increasing use of AI in varied contexts of society has been included. As we all are acquainted with its use in social media, Finance, Entertainment, Gaming, E-Commerce, Astronomy, Gaming, Automotive, and Transportation, etc. and it greatly impacted the lives of every individual to a great extent. AI Cloning is also another crucially important aspect that is being used and prevalent around the world and should be explored. In this paper, the researcher has also tried to add all relevant perspectives related to the use of Artificial Intelligence like the Internet of Things, Robotics, Healthcare, Quantum

Computing, and Autonomous Vehicles have been included but its major focus is on the unseen dangers associated with it which include Privacy issues, unclear legal regulations and other dangers to humanity as a whole. The research design is the exploratory type and is a secondary database that includes case studies, literature, and online available sources.

Keywords: Artificial Intelligence, Digital Technology, Cyber security, Generative AI Chatbots, Algorithm, E-Brevia, Patent, Human Rights Violation.

Introduction

Artificial Intelligence is a machine solving problems in the same ambit of intelligence as human beings. It is a computer-based program that learns, observes, analyzes, and works to make it possible to perform things like any human being as far as various brain-related tasks are considered.

“Artificial intelligence is a subset of computer science that focuses on machine-driven intelligence.”¹

Along with this it also has those features which are uniquely central to human beings like cognition with the capacity for reasoning, predicting, experiencing the problem, and multitasking like any living person. Artificial Intelligence application tools are highly adaptive to adjust new inputs and do things very much like any human being artificially and scientifically like playing video games, driving a vehicle, and natural language processing in general for example also automated contract analysis, legal document summarization, use of AI law firms, due- diligence, in tax accounting, document management, billing, Human Resource management specifically in recruitment, training, Performance analysis, etc. So ultimately AI can have many advantages and can be a useful technological tool as such but there are some unseen and hidden dangers of its use that should be highlighted and be given special attention.

The Premise

¹ Reynoso Rebecca “A Complete History of Artificial Intelligence”,2021, G 2,<https://www.g2.com/articles/history-of-artificial-intelligence>, Retrieved on the date 02 May 2023.

Artificial Intelligence technology has its own detrimental effects on human life which are needed to be analyzed as far as its relation with law and legislation and other varied institutions are concerned. There can be numerous socio-legal issues, for instance, Intellectual Property rights issues, Misinformation, Deepfakes, Data Privacy, Cyber Security, and Algorithmic bias which could lead to the socio-legal problems of liability for AI, Transparency, and accountability, Ethical Considerations, Bias and discrimination problems, socio-economic inequality manipulating financial and stock markets along with the Human Rights violations, fake news in social media, Cyber-attacks, autonomous weapons and therefore one can know that how all these will create chaos and social disorganization, along with these the absence of appropriate regulatory mechanisms and laws has its own adverse effects. Many latest AI tools like ChatGPT, Robotics, Biometrics, and Speech/face Recognition AI tools, Use AI tools for Photoshops, Self-Driving Cars, etc. In this way, there is no doubt many advantages of AI is there and can actually help human beings to do things at a much faster pace and make the Human Race a much smarter living being by developing much more capable problem-solving skills. AI can make any work and organization much more efficient and can minimize the expected errors but still, we need to focus our research and should raise all the concerns at the right time so as to have total societal control over its increasing risks and it is only possible when we had that knowledge about its societal impacts.

Many renowned technology experts all around the world and even some legal giants in India have some or other time shown their concerns about the destructive effects of abused Artificial Intelligence in different sectors of social life. According to the leading technology expert physicist Stephen Hawking who raised his concerns about the high risk of AI to humanity and it can be the prime reason for the end of the human race. Such distress was also felt by Steve Wozniak who is cofounder of the Giant Apple empire. He has shown his concerns about the increasing threats of AI technology by saying -

“The trouble is it does good things for us, but it can make horrible mistakes by not knowing what humanness is,”²

² Sauer Megan “Steve Wozniak’s warning: No matter how ‘useful’ ChatGPT is, it can ‘make horrible mistakes’” Retrieved from <https://www.cnbc.com/2023/02/10/steve-wozniak-warns-about-ai-chatgpt-can-make-horrible-mistakes.html#:~:text=%E2%80%9CThe%20trouble%20is%20it%20does,t%20currently%20replace%20human%20drivers.Date-> 30 April 2023

Along with this Stephen Hawking also said in one of his interviews that human biological growth is completely incapable to compete and strive as against Artificial Intelligence tools, and is destructive to humanity as such, therefore, it would sometimes be overridden by it.

Recently with a very new approach, the Supreme Court of India has adopted the use of advanced AI tools like TERES developed by a Bangalore-based startup and started live transcription of the case hearings. Though these new initiatives are needed with changing society and its complexity but in an appropriate socio-legal framework.

Review of Literature

Apart from all the highlighted prospects, some authors have a different perspective who highlighted on the economic aspects of AI for example one such book by Lok Ch Johnny, entitled “*Artificial Intelligence Impacts: Human Job Market Change*”, 2019, has outlined the problems associated with it and its impacts on future works change and how employment will influence employment and labor market along with that it will affect business strategy and public policy. Automation and machine learning will influence productivity and growth along with this other thing The author showed his concerns over the things like its effect on globalization and urbanization and advances in robotics can have on human performance and its effect on development and also the problems associated with it and its tackling. And ultimately had its own side effects along with other issues related to AI in the workplace, it will also acquire new skills to fulfill the demands in the automation era which can have its own psychotically effects

Sanyal Kaushik, and Chakrabarti Rajesh in their book entitled “*Artificial Intelligence and India*” by Publisher OUP India,2020, discusses the multidimensional aspects of the subject of Artificial Intelligence. This book elaborates on India’s position as far as the development and use of this peculiar technological tool are considered It summarizes the opportunities and risks of Artificial Intelligence in society. This book depicts the ongoing discussions, debates, and arguments about ethical regulations, bias, and data privacy issues that could arise from overuse and abuse of the tool, also the worldwide increasing application of the Artificial Intelligence tool can create a global AI ecosystem that could be not be easily sustained.

Prof. Wooldridge Michael in the book entitled “*A Brief History of Artificial Intelligence: What It Is, Where We Are, and Where We Are Going*” 2021 has highlighted the various futuristic prospects in the use of Artificial Intelligence and its impact on the world. He outlines the dangerous and unexpected effects and consequences of the use of AI technologies

like Driverless cars which at times due to computer malfunction or any minor glitch could be the reason for worse accidents than could be done by any person or due to human error. The study along with this suggested another example related to the problems of AI is automated translation tools which also have numerous quality issues and a lack of sensitivity to the culture and laws of the nation.

Miao Fengchun, Holmes, Wayne, Ronghuai Huang, and Hui Zhang in their book *entitled “AI and Education: Guidance for Policymakers”* UNESCO Publishing, 2021, noted that an important aspect of the use of Artificial Intelligence in Education and Educational Institutions. This book explores the positives but more about the negative features of Artificial Intelligence in the Education system and how rapid technological developments can bring multiple risks and challenges as far as policy debate and regulatory frameworks are concerned. This book also investigates and suggested the ethical and inclusive framework of AI as far as its use in Educational Institutions is concerned.

Many other Authors like Aleš Završnik, and Katja Simončič in their co-authored book entitled *Artificial Intelligence, Social Harms and Human Rights, 2023* noted and also suggested that the progressive use and development of Artificial Intelligence must be regulated in an appropriate manner and all the legal and ethical aspects must be taken into deep consideration and checked for any type of Human Rights violations.

Historical Perspectives

Artificial Intelligence, which is one of the defining tools of the Digital Revolution has also evolved into a more or less linear or sequential model. Knowing about the history and analyzing the past actually gives us an idea and in fact a crucial perspective to know about the patterns and understand more deeply and provides different insights about the problems related to the future also. Artificial Intelligence impacts and learning about its growth will help us to know about the frequencies and guide us to examine its problems from a futuristic perspective as well So, a here brief history of the AI platforms and digital revolution with its meaning needs to be discussed. And so ‘Digital Revolution’ refers to the transition of mechanical and analog electronic technology to digital electronics which means accessing data-based information through the internet and it started in the 1940s. Artificial intelligence term was coined by John McCarthy an American Computer Scientist at MIT (Massachusetts Institute of Technology), Cambridge, England. He was also part of the first conference held

on the issues related to Artificial Intelligence at Dartmouth Conference He also created the Lisp computer language program. ³Along with that, the first successful AI tool was the Checkers draughts program written in 1951 by Christopher Strachey and it was played on the Ferranti Mark computer at the University of Manchester, England. This program could play complete checkers games at very high speed. ⁴

Later in varied ways, Artificial Intelligence tools evolved from 1940 till today for example in the 1960s the Unimate was the very first Industrial robot, and the first chatbot was Eliza, Shaky the Robot 1970s, The chatbot ALICE 1990s, in 2002 The vacuum cleaning Robot Roomba and on 2008 -Voice recognition feature on the iPhone and Siri, 2020s, The Q/A computer system – IBM Watson (2011) The pioneer of Amazon devices – Alexa (2014) The first robot citizen – Sophia (2016) The first AI music composer – Amper (2017) A revolutionary tool for automated conversations – GPT-3 (2020)⁵

Though all these technologies and software have their own positivity and provided many benefits in daily life from data collection to interpretation but apart from that they equally made errors that can cause severe challenges for example the AI tool used for voice recognition or Voice recognition software for medical transcription has many defects & shortcomings like when it is used in documentation, in that case there is large possibilities of incorrect accents and lack of clarity would be there and therefore all the wrong text would be formed and interpreted etc. It is also very slow and unable to sort out voice strains etc. could be harmful. Such another AI software a smart home appliance developed in 2014 tools like Amazon Alexa Voice assistant/speaker can have not only privacy breaching issues but can be destructive when used by children one report about the Alexa crisis that there was a 10-year child who was recommended to play some very lethal viral challenges which were to touch a coin to the prongs of a half-inserted plug.⁶ Unfortunately, liability issues were there and many more different socio-legal problems will arise from it in the future also when more evolved forms would be there.

³ Ayyagar Niharika “The Timeline of Artificial Intelligence – From the 1940” 2022 verloop a.i <https://verloop.io/blog/the-timeline-of-artificial-intelligence-from-the-1940s/#enigma-was-broken-using-ai-19> retrieved on 5 May 2023

⁴ Britannica “Artificial Intelligence” <https://www.britannica.com/technology/artificial-intelligence/Alan-Turing-and-the-beginning-of-AI> retrieved on 11 May 2023 retrieved on 5 May 2023

⁵ Ibid

⁶ Forbes <https://www.forbes.com/sites/edwardsegal/2021/12/28/a-crisis-is-averted-after-amazons-alexa-tells-child-about-lethal-viral-challenge/?sh=6f57695639b6> retrieved on 11 May 2023 retrieved on 5 May 2023

Artificial Intelligence tools in Everyday Life

Thus, aforesaid brief historical perspectives give details about the earlier problems and its perspectives but also depicts the events happened in past and its effects and will definitely help to understand not only the present but also orientates how the future would be created by it. Now here in this paragraph, the various facets of Artificial Intelligence have been depicted as far as its use in daily life and problems related to it are considered. As the AI subject is very broad here therefore only a few of them are being highlighted and it throws light on the increasing use and a few of the advantages/disadvantages associated with it in contemporary society

Robotics

Robotics is that domain of engineering and computer sciences where machines are formed to do the task and is programmed without further human interposition as such.⁷ The use of AI in robots is now becoming very common like in homes, manufacturing industries, healthcare, agriculture, aerospace, military and other varied sectors. These have been very much successful in bringing convenience and security as such but there were and would be numerous privacy and security issues as such and also there is the possibility of misuse of sensitive data by AI tools and software for example in robotics two forms of it is there one is industrial robots and another is service robots which was and is used to perform several functions like in Hotels, retail stores, airports, military, etc. were the reason for many crises. As such these robots can actually be devoid of the knowledge and skills which humans have like service and quality changes with different dimensions some require speed and others accuracy with personal attention which is not there in robots apart from that many other issues like control errors, mechanical failure, unauthorized access, and even improper installation can cause massive damage for example surgical robots.⁸ Automated machine-like robots can also be the reason for the increased unemployment rate in many countries, many studies have shown that approximately about 20 million industrial jobs will be following automation, and this can result in a massive unemployment problem.⁹

⁷Martin Alan “Robotics and artificial intelligence: The role of AI in robots” 2021 <https://aibusiness.com/verticals/robotics-and-artificial-intelligence-the-role-of-ai-in-robots>, Retrieved on 12 may 2023.

⁸ Ibid

⁹Vandana, Requintal, 2023 “11 Advantages and Disadvantages of Robots” <https://www.techquintal.com/advantages-and-disadvantages-of-robots/> Retrieved on 12 may 2023

ChatGPT

Currently, ChatGPT is widely in the news which was launched on Nov 2022. It is conversational Artificial Intelligence technology developed by OpenAI an American open-source research laboratory company. ChatGPT is natural language processing and machine learning based on GPT-3(Generative Pre-trained Transformer-3) model which is used to enable chatbot to interact like any human being and converse naturally and accordingly very much based on queries it responds. It also has some advanced features of AI like sentiment analysis and content personalization. The first AI chatbot was created by Richard Wallace at MIT (Massachusetts Institute of Technology) named A.L.I.C. E (Artificial Linguistic Internet Computer Entity). ChatGPT is extensively in social media platforms like Facebook, Instagram, Twitter, Messenger, Telegram, etc.¹⁰ to make creative and very much engaging posts as per the need of the audience. generate hashtags, it can also be used to compose music/lyrics.¹¹ Take to virtual tour, and used to compose essays, Job interview, resume writing, content writing, and emails, explain complex topics along with that can even give relationship advices. ¹²

But the excessive use of ChatGPT has raised many socio-legal concerns like privacy and data breaching issues, fake information, misinformation, gender discrimination etc. But can also disintegrate other institutions of society like educational institutions can have many harmful /negative impacts as such on original thinking, creative and critical learning would be impacted, will lack in problem-solving skills, Education is all about teaching hard work with full discipline, dedication, and determination but Tools like ChatGPT can make student non-conformist and meanwhile, students will slowly make them dump and incompetent.

Again, as per many news different schools all over the world banned ChatGPT access to students for cheating concerns and other reasons with negative implications for society to name a few like Italy, America, Britain, China, EU, and recently only C.B.S.E has also banned its use in India. Along with all these, it is also a threat to many Jobs like that of lawyers, copywriters, Journalists, paralegals, web and digital interface designers, Blockchain

¹⁰ Digital Scholar What is ChatGPT: The History of ChatGPT- Open AI (2023) <https://www.google.com/search?q=chatGPT+use+in+social+media&sxsr=A> Retrieved on 12 may 2023

¹¹ Timothy Maxwell,2022 “11 Things You Can Do with ChatGPT” <https://www.makeuseof.com/things-you-can-do-with-chatgpt/>

¹² Ibid

Engineers, etc. Recently one report from Goldman Sachs Investment Banking Company more than 300 million full-time Jobs could be completely lost around the world as an outcome of the full automation of economic sectors as a result of the use of ChatGPT.

Self-Driving Cars/ Autonomous Cars-

Another very popular talk of the town is Driverless Cars or AI-operated self-driving cars in the world. An Autonomous Car is a vehicle that uses Artificial Intelligence tools like image recognition systems, machine learning, and other neural networks which are assembled with sensors, cameras, radar, LIDAR (Light Detection and Ranging which uses laser scanners and GPS (Global Positioning System), etc.) and other advanced technologies to not only make a real-time decision based on acquired data gathered through sensors and to travel between destinations without any human driver and it is taking the world to another transition phase with both existing pros and cons.

Driverless cars have their own benefits they can help reduce accidents due to human errors like drunk driving or distracted driving, and also is environmentally friendly but has other socio-legal troubles like security issues due to chances of hacking, and machine errors could be there, another disadvantage could be unpredicted events like changing weather conditions, and about energy adjustments, which is depicted as moral machine dilemma, etc.¹³ Apart from all these driverless cars have their own legal challenges and many people are worried about crashes, injuries, accidents, and other failures like the one related to its liability. Here below given is a famous quote with regard to the author's concern about self-driving cars-

“The self-driving car is not self-aware It's just driving: it's not thinking.”-Eric Schmid

Thus, there are many other such AI tools like Speech/face Recognition AI tools, Use AI tools for Photoshops, Natural Language Generation, Machine learning, Virtual Agents that can have their own pitfalls.

Existing Challenges and Socio-Legal Prospects of Artificial Intelligence

Artificial Intelligence is as we have found is now largely being used in varied sectors of our life and is considered a pillar of socio-economic well-being in different forms and sectors like the health sector, Automobiles sector, Banking, Surveillance, social media, Gaming,

¹³ Valientemott “Self-driving cars: Pros and Cons” <https://valientemott.com/auto-collisions/self-driving-cars-pros-and-cons/>

Astrology, Agriculture, Robotics, Business, E-Commerce, Education, Entertainment, Governance, Legal Institutions, Finance, etc. Use of Artificial Intelligence tools and applications which has made our life more comfortable and it helps to comprehend complex problems related to all aforesaid sectors more efficiently and quickly.

But when it is about the socio-legal aspects of Artificial Intelligence it becomes important to know about different issues and ensure that technology does not violate individual and group norms like privacy issues and others for example Discrimination and Biases, Transparency and accountability, Liability and Governance, moreover, issues like Algorithms Decision making Unemployment Problem, and security issues in the form of Cyber Attacks are there and to get more details about its effects have been discussed in the below-given paragraphs.

Data Breaches and security issues

The term data breaching refers to security violations and unauthorized use of protected and confidential data by an individual or a group. That means that any of the confidential data is being used, or shared by an external agency without any permission. The data breaching can cause major damage to any of person or organization and even to governmental Institutions. There are numerous cases of data breaches all over the world which can be even more destructive in the coming future due to more advancements in technology like AI. Recently, as per one report, data breach cases in India in 2018, as per global data were second-highest. Aadhar data breach case, SBI data breach case, Just Dial case, Kudankulam nuclear power plant data breach case, Credit and Debit data breach case. Air India data breach, Big Basket data breach, and thus the number is very big. Recently only on May 2021, Dominos India a division of Jubilant Food Works had a major cyberattack when data related to 18 crores of order details, email addresses, phone numbers, personal identity, etc. were leaked on search engines Dark Web created by Hackers. There are negative results of data breaches as such it can not only damage the reputation and brand of any industry, or organization but can also face different law and legislation-related issues like fines and lawsuits for that.¹⁴ This problem is continuously increasing and is a very big security issue related to AI and needs to be resolved and need strict regulatory measures.¹⁵

Deepfakes

¹⁵ "Data Breaches in India" 2021 https://en.wikipedia.org/wiki/Data_breaches_in_India retrieved on 11 May 2023

If we look at the broader spectrum of AI and its implications in a global perspective, we can say that it has reached to the world rapidly. Moreover, in a fast-driven digital era, the use of AI in the form of Deepfakes is tremendously being used and has been in the news because of its many socio-legal concern all over the world.

Deepfakes is a technology based on AI (Deep synthesis technology) used to form manipulated and digitally forged images, pictures, audios and videos etc. Recently it was in news when the Cyberspace Administration of China which monitors the country's cyberspace formed new laws effective from 10 January 2023 to regulate the use of deep synthesis technology and regulate disinformation, Augmented/virtual reality, alter text, and synthetic media likewise European Union has updated the Code of Practice regulate the spread of disinformation via deep fakes, in 2021 the United States formed Deepfake Task Force Act, California, and Texas in October 2019 has formed laws to regulate deep fake videos.

In addition to this as per the Indian legal framework there is no specific law to curb this problem of deep fake technology though other similar laws are there like copyright violations and cyber felonies (Information Technology Act, 2000).¹⁶ This technology will create massive problems in societies and it can be the preferred crime for cybercriminals. Deep learning technology is used for creating pornographic videos, Election manipulation, or in the marketing sector financial fraud, making fake reviews, making fake customer reviews, scams, hoaxes etc.¹⁷ And therefore we need to look over this matter and make policies and laws like China, the U.S., and many other countries.

Transparency and Accountability

Artificial Intelligence is not linear in its sense. It has multidimensions and draws upon other crucially important issues such as Transparency and Accountability that has to be studied and understood. More significantly, topic-oriented issues are deeply embedded in privacy and confidentiality, data loss, and discrimination to a great extent. The advanced technologies used in Autonomous Vehicles, smart devices like Alexa, Apple Siri, and Smart Speakers can save time and makes our life easier and more comfortable but sometimes leads to legal and ethical issues if not designed properly. Apart from concerns about data privacy, home-monitoring tools also may capture others' data. There is a term bycatch as “fish or other sea

¹⁶ “Deepfake Technology”2022 <https://www.drishtias.com/daily-updates/daily-news-analysis/deepfake-technology>

¹⁷<https://vajiramias.com/article/deepfake-technology-how-and-why-china-is-planning-to-regulate-it/63a008cb0dfcf809498fdb4/>

creatures that are caught unintentionally by people who are trying to catch other types of fish.”¹⁸ There could be exceptionally unresolved Transparency and Accountability issues related to cases of machine errors.

Case Diary: Artificial Intelligence at the National Level/ International Level

Throughout this paper, the researcher has emphasized the multidimensional previews of AI but here in this paragraph, now the focus is on understanding the detailed descriptions and exploring some other untouched facets of AI through case studies have been done. There are numerous cases and incidents which have been there at both national and international levels that have attracted the attention of policymakers, law framers, and all social reformers toward the increasing danger and abuse of this technology. A few selected case studies have been discussed here:

Healthcare Records Breach 2019

The very first case study is about the US-based cyber security firm FireEye reports which revealed the shocking news related to the hacking of one of the leading Healthcare websites in India by China-based hackers (known by the name “*fallensky519*”) who stole over 68,000,000 records of doctors and patients containing all the personal information and other medical details like patient’s history, Clinical Findings, Diagnostic test reports, about their progress and medications, laboratory data, radiology reports, etc. As per the news, the cybercriminals hacked the data and sold it to different illegal platforms and underground markets for under \$ 2000.¹⁹ This is just one incident and all around the world, its number is expected to be more. This could cause massive damage both sociologically and legally of the individual like loss of trust, privacy issues, and financial losses to increased fatalities as well as to the organization like losing customers, brand identity, and reputation along with its other misuses.

Air India Cyber Breach 2021

Artificial Intelligence is slowly and completely changing the social structure of different societies around the world and can have the worst negative impacts, especially in relation to

¹⁸ <https://www.sciencedirect.com/science/article/pii/S2666379122002282>

¹⁹ “Chinese hackers steal 68 lakh records from India healthcare” 2019, site <https://www.expresscomputer.in/security/chinese-hackers-steal-68-lakh-records-from-indian-healthcare-site/41437/>

security issues and unreliable resources for information and learning.²⁰ Ultimately, we can easily perceive the negative outcomes as discussed in the aforesaid statements there are a few other incidents that caused huge harm to the society and system both. Such other case is of Air India cyber-attack of 2021. As per the report Air India's passenger service provider a multinational IT company SITA (Société Internationale de Telecommunications Aéronautiques) which provides Aviation services like reservation, ticketing, and aircrafts departure was hacked and there was theft of the personal data like passengers' name, date of birth, place of birth, residential, credit cards details, contact/address details, passport information of 4.5 million passengers from all around the world (August 21 2011 to 3 February 2021).²¹ So that is major data breach and again just one incident affecting millions. Along with data breaching some AI applications can have other serious effects like a defective AI-based aviation management can have its own safety concerns like the one related to a faulty route planning that could result in flight delays and can be the reason for serious accidents.

Upstox Reset Passwords Scam 2021

Upstox is India's fastest-growing investment trading company founded in 2009 as RKSV securities as of now it has more than 11 million registered users who suffered a massive cyber-attack. About 25 lakhs of its customer data were stolen and dumped on Dark websites. Upstox has also collaborators like Indian Premier League, International Cricket Council, and Tamil Nādu Premier League to name a few. And therefore, cases like this highlight the loopholes and hidden risks of E-commerce and must be resolved. Digitalization has its own significance but not always at the cost of the common people and the innocent. At the International level, Ukraine's power grid attack in 2015, the RockYou2021 attack, and The Marriott 2022 Data Breach are a few to name that also have caused the tremendous loss. Therefore, E-Commerce based businesses must make sure to act promptly and look to the security concerns of their customers and thus protect their data. Along with that law of the nation was strong enough to curb this problem

Conclusion and Suggestions

²⁰ https://economictimes.indiatimes.com/news/india/air-india-sued-over-data-breach-flyer-seeks-rs-30-lakh-in-damages/articleshow/84197878.cms?utm_source=contentofinterest&utm_medium=text&utm_campaign=cppst

²¹ Singh Manish, "Air India passenger data breach reveals SITA hack worse than first thought" <https://techcrunch.com/2021/05/23/air-india-passenger-data-breach-reveals-sita-hack-worse-than-first-thought/>

Many other socio-legal concerns like that of Discrimination and Biases, Algorithms Decision making Liability, and Governance. Unemployment Problem. Weapons Automation. Socio-economic inequality, Human Rights Violations could be there. It is therefore expansion and evolution of existing laws and legislation is needed. We actually need to have a futuristic aspect of regulating AI for many reasons like automation, accountability, responsibility, and its significant impact on our lives. Over the last few months all around the world, it has been found that many countries like U K, Brazil, the United States, Canada, and the countries from the EU are either reviewing or have already enacted the laws and legislation to regulate irregularities, Human right violation issues and restrict the untrammled growth and to great extent unauthorized power of Artificial Intelligence. Thus, this AI system which is formed by software engineers, programmers, and scientists who are makers/designers of these products/ algorithms could program them to take decisions that will increase inequalities and can be based on personal biases and be unfair as such. Therefore, some general awareness and more in-depth research are needed in this regard.

Ultimately with regard to the above discussions and explanations along with the varied research, it is the right time that we should rethink to not only reframe law and legislation but also develop such policies that not only assure social, political, and legal well-being of all the human beings but also need to develop and incorporate such efficient techniques that radically transform the AI used efficiently but also overcome the presumed, unexpected problems but also the current issues as well.

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