

Journal of Multidisciplinary Studies and Research

Volume 2, Issue 1, 2026

Indexed Journal

Peer Reviewed Journal

Artificial Intelligence and the Future of Legal Aid Delivery Systems: Legal, Ethical and Policy Perspectives

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ABSTRACT

Artificial intelligence (AI) is quickly reshaping the way legal services are delivered, bringing about new ways to make the process more accessible, economical, and effective. Legal aid services continue to be affected by such problems as costs of legal services, shortage of qualified lawyers, delays in procedures, and geographical boundaries that prevent marginalized communities from having access to legal help. Possible ways that AI can change legal aid include providing automated legal services, using intelligent legal assistants, document analysis, multilingual legal services, and digital legal aid platforms. This chapter will analyze the legal, ethical, and regulatory implications that arise due to the revolutionary capabilities of AI in delivering legal aid in the future. It will examine the main technologies that are used by AI and that can be applied in legal aid services, including natural language processing (NLP), machine learning, generative AI, and intelligent legal chat bots. Moreover, the chapter will highlight key questions, such as accountability, data protection, algorithmic biases, the validity of advice provided by AI, the issues of intellectual property, and risks associated with automated decision making. Furthermore, the chapter states the importance of governance of AI that is ethical, fair, transparent, explainable, human-centered, and inclusive of digital access. The chapter recommends the creation of robust governance frameworks, institutional policies, capacity building efforts, and collaborative processes among the government, legal systems, technology providers, and civil societies to support responsible AI deployment. The need for balanced use of human intelligence and artificial intelligence in the future of AI legal aid is necessary, where technology assists lawyers' work without losing the human element.

Keywords: Artificial Intelligence; Legal Aid Systems; Access to Justice; AI Ethics; Digital Justice.

1. Introduction

It is a well-established fact that access to justice is an integral part of democratic societies and plays an important role in the rule of law. Legal aid system have been established to ensure access to legal help and to ensure that people, and those with small incomes and other disadvantaged social groups, can use their legal rights effectively. In the past, legal aid has grown from a charitable effort to professionalized public services backed up by legal institutions and governments. To promote the new idea of legal aid, justice should be available to all the members of society without taking into account an individual's economic status (Cappelletti & Garth, 1978). In this context, the extension of legal aid has been linked to human rights approaches, among them, the declaration of access to legal assistance as a necessary condition of a fair trial in the international human rights law (United Nations, 1966).

Although significant progress has been made in legal aid institutions, traditional modes of legal aid delivery still present huge structural problems. An important obstacle that appears

repeatedly is the expense of legal services, which makes it difficult for many people to have legal representatives for professional representation. Legal processes are often complex, and information and documentation are extensive, and professional expertise is needed to access legal services, which is not available for economically disadvantaged groups (Abel, 1985). This means that many people remain without access to proper legal systems and are unable to benefit from them, resulting in inequalities of access to justice.

One of the other big issues is the lack and distribution of legal practitioners. Many countries, especially developing and rural areas, experience a shortage of qualified attorneys and legal professionals who can provide legal services to those in need. In addition, there are also limitations in institutional capacity, limited funding, and legal professionals are largely concentrated in urban areas, all of which impacts access for vulnerable populations (World Justice Project, 2023). Further, conventional legal aid systems also suffer from delays in the judicial processes. The time-consuming process, administrative delays, and backlogs in cases can diminish the value and effectiveness of legal support, and can deter people from seeking their rightful claims (OECD, 2016).

Geographical accessibility is still an issue, particularly for the population in remote areas. People have to often go a long way to get to legal aid offices or to court, causing extra financial and social strain. The challenges highlight the need to test and experiment with new legal aid models that can enhance legal aid efficiency, affordability and accessibility.

Artificial Intelligence (AI) is a revolutionary technology that can change the way legal services are delivered. In this context, Artificial Intelligence (AI) has become a revolutionary technology that can transform the way legal services are delivered. The increased capacity in computing power, data analytics and intelligent algorithms has afforded new possibilities for legal tasks to be automated, for better access to legal information and to assist in legal decision-making. AI-powered legal systems can offer initial legal advice, help extract meaning from legal documents, categorize legal data, and support attorneys in dealing with heavy workloads (Ashley, 2017). Thus, the use of AI could be a way to reach more clients than is possible with traditional legal aid delivery models.

AI is defined as the creation of computer systems that can perform tasks that typically need human intelligence, such as reasoning, learning, problem-solving, understanding language, and making decisions (Russell & Norvig, 2021). In contrast to traditional software systems which run on programs with predetermined instructions, AI systems are capable of recognizing patterns within huge quantities of data and enhancing their performance by means of learning mechanisms. AI is characterized by automated reasoning, learning from adaptation, predictive data analysis, and natural language interaction.

AI has been a gradual evolutionary process in the legal profession, moving through a few technological phases. The initial legal uses of AI mostly relied on rule-based expert systems, which sought to encode legal thinking in a set of rules and structured logic. The systems were able to answer legal questions automatically by applying existing legal doctrines to the set of factual circumstances presented. While built on a rules-based structure, expert systems showed that technology could help with making legal decisions (Susskind, 1987).

One of the most important innovations in artificial intelligence is machine learning (ML), which significantly broadens the field of AI application in the legal arena. One of the breakthroughs that have increased the capabilities of AI in the legal sphere is machine learning. ML can analyze large amounts of data, find trends in them and make predictions

based on the previous data. ML has many applications in law, such as case classification, document analysis, prediction of litigation, contract review, and legal research (Ashley, 2017). This trend is especially helpful for lawyers providing legal aid who usually have many cases to handle with limited resources.

Another significant advancement is in the area of Natural Language Processing (NLP) technology that allows computers to comprehend, decipher and even produce human language. It is important to note that one of the key methods for communicating information about the law is through writing, making NLP a highly important technology for law-related purposes. An NLP system may be used for analyzing court rulings, summarizing legal documents, searching for legal information and condensing legal concepts into something a layperson could understand (Surden, 2019).

In recent years, Generative AI and large language models (LLMs) have ushered in a new era in legal technology. AI systems that can generate content that mimics human writing, answer legal questions, create documents and help users via conversation are termed as generative AI systems. The technologies have enabled the creation of opportunities for building AI legal assistants that offer basic legal information and help users navigate legal processes (Choi et al., 2023). However, concerns have been raised about their accuracy, accountability, confidentiality and ethical responsibility.

This AI adoption in Legal Aid is a departure from the lawyer-centric approach to legal aid and towards tech-driven justice delivery. However, AI is not meant to take the place of lawyers altogether, but rather be used alongside them to enhance their ability to provide legal assistance to clients. AI is not intended to replace lawyers, but rather to complement their skills in delivering legal services to clients, particularly in situations where they are not available. AI can free up time for lawyers to dedicate to more high-level work that demands human judgment, empathy and ethical reasoning (Susskind & Susskind, 2022).

AI technologies are a hot topic that can pose opportunities and challenges for the future of legal aid delivery systems. This paper focuses on the use of artificial intelligence (AI) in improving accessibility, lowering costs, and boosting efficiency in the area of legal aid while taking into account the need for caution when considering legal, ethical, and regulatory implications. The aim of this chapter is to provide an overview of how the use of AI can change legal aid systems and include technological aspects, regulation, ethics, and governance issues.

The current chapter will explore the implications that AI technologies may have on the provision of legal aid. This chapter will look at innovations such as automated legal advice, intelligent legal information systems, document automation, and AI-driven legal research. The chapter will focus on assessing how innovations can improve access to legal services, especially in relation to those for whom legal services are out of reach because of their socio-economic situation.

In addition to the above, this chapter also considers the ethical and legal concerns related to the adoption of AI technology in the legal aid process. This chapter specifically focuses on topics such as algorithmic bias, transparency and accountability, individual privacy concerns, accuracy of data collected by the AI algorithms, and the requirement for human intervention. Considering the fact that legal decisions have impacts on people's rights and liberties, any use of AI must have stringent ethical guidelines and regulations attached to it.

Furthermore, the chapter provides the requirements of a responsible legal assistance system based on artificial intelligence. Such policy requirements as comprehensive governance, professional guidelines, digital inclusion measures, and institutional capacity-building initiatives should be discussed.

2. Conceptual Understanding of Artificial Intelligence in Legal Aid Systems

2.1 Understanding Legal Aid Delivery Systems

Legal assistance is an integral institutional mechanism that aims to make legal information, advice, representation and dispute resolution services available to all, including people who do not have a strong economic or social position. Legal aid aims fundamentally to remove inequalities based on poverty and make legal rights a reality. If there are inadequate legal aid systems, the rule of equality before the law can be theoretical, for people with low income may not know how to use the law, be able to assert their rights or even be able to participate in the courts effectively (Cappelletti & Garth, 1978).

Legal aid delivery systems are intended to ensure that people who are not able to access legal services for themselves are able to access legal services, at little or no cost. Typically, these services involve legal counseling and representation in courts and tribunals, legal document preparation, mediation services, and legal education courses. While the courtroom-based provision of legal assistance has been a central element of the legal aid landscape, legal aid is now conceived of as means to empower people to understand and exercise their rights, rather than simply to represent them in court (Golub, 2003).

Among democratic societies, legal aid is one of the basic pillars for the rule of law and fair justice in institutions. Laws are not enough to make a democracy, citizens need to be able to access and utilize legal institutions effectively. Social and economic inequalities can be exacerbated when the disadvantaged groups are unable to access legal service, resulting in unequal protection of rights. Thus, legal aid can be seen as a tool for creating social justice, minimising inequalities and enhancing public confidence in the legal system (Rhode, 2004).

International legal norms and conventions are well aware of the connection between legal aid and human rights. Access to justice is regarded as a fundamental human right since without it; a person will not be able to seek remedies if his or her rights are violated. The right to a fair and free hearing is guaranteed by Article 14 of the International Covenant on Civil and Political Rights (ICCPR) (United Nations, 1966) and there are guarantees for legal assistance in criminal proceedings when necessary. The United Nations Principles and Guidelines on Access to Legal Aid in Criminal Justice Systems also highlight the importance of legal aid as a fundamental part of fair, humane and effective justice systems (United Nations Office on Drugs and Crime [UNODC], 2013).

Although legally protected, there are a number of shortcomings to traditional legal assistance, such as funding, growing demand for legal services, lack of legal professionals, and administrative inefficiencies. The challenges have driven policy and lawmakers to consider technological solutions that can help extend access to justice. Artificial Intelligence (AI) is one of the most promising Technology solutions that can improve the delivery of legal aid by providing access to legal information, automation of routine tasks, and augmenting institutional capacity.

2.2 Types of AI Technologies Relevant to Legal Aid

AI technologies have opened up new opportunities for reimagining legal aid services through automation for analysis, communication, and decision-support. The following are some AI

technologies that are especially pertinent for providing legal aid services: Natural Language Processing systems, Machine Learning systems, Generative AI systems and AI-powered virtual assistants.

a. Natural Language Processing (NLP)

Natural Language Processing (NLP) is part of AI that empowers computers to comprehend, analyze, and create human speech and language. Communication is a key component in legal systems, both written and spoken, and NLP is a technology of paramount importance in making legal information more accessible. NLP-based systems can process legal documents, analyze legal questions, identify information that is relevant, and explain legal concepts in an understandable manner (Surden, 2019).

A critical use of legal aid in NLP is comprehending legal enquiries. In a traditional legal system, people have to speak professionally in legal terms when expressing their issues, creating communication barriers for those who are not versed in the legal language. Legal problem statements can be described in natural language by humans and NLP-based systems can help feed the desired legal information into the right individuals. For instance, when a person encounters problems with housing, he can put forth his experience in his way, and then the AI system can recognize categories or circumstances that relate to his case and assist him accordingly.

The second application of AI technology is automated Legal Information Retrieval. The AI-based search engines can go through voluminous databases of laws, regulations, decisions, and legal texts and retrieve accurate information faster than the conventional keyword search, although at times with varying degrees of precision. While AI search engine technologies may not display as much precision as keyword-based systems, they are able to quickly sort through a wide variety of statutes, regulations, judicial decisions, and legal documents to find the required information. This would be beneficial for both lawyers and people in general to get legal guidance (Ashley, 2017).

Another aspect taken into account by the NLP technology includes multilingual legal advice provision. This is an important feature in jurisdictions where there is linguistic diversity. Language barriers can be overcome using AI technology of translation and language processing.

b. Machine Learning Algorithms

With Machine Learning (ML), computer systems can learn from past data and recognize patterns without needing to be programmed individually to perform each task. Leading for legal aid, ML algorithms can be used to analyze huge amounts of legal data, and serve a range of administrative and analytical tasks.

Case classification is one important application. Lawyers for the poor also see many inquiries on a variety of legal subjects, from family conflict to work problems, criminal matters to housing concerns. Machine learning technology can automatically classify cases based on legal attributes, which enables organizations to concentrate on cases that need immediate attention and streamlines resources (Ashley, 2017).

The other recent use is legal outcomes prediction. Previous case data can be used to detect patterns in cases that will be used for machine learning models to determine legal outcomes. These tools can be useful for attorneys to analyze potential strategies, to assess risks and to

give better advice to clients. But predictive systems need proper monitoring because legal historical data might already have social and institutional prejudices (Završnik, 2021).

As well, the analysis of legal documents is growing as an application for ML. Contract, application, court, and case files can be reviewed by AI systems to extract important information, identify inconsistencies, and extract relevant information. These can help to streamline administrative tasks in legal aid agencies.

c. Generative AI Systems

Generative AI is a newer trend in legal technology and the ability for a computer to generate new content based on patterns in the data it has learned. Advanced conversational AI systems, known as Large Language Models (LLMs), can create human-like text and communicate with users in natural language.

In the context of legal aid, AI can assist in creating various legal documents such as complaint letters, applications, affidavits, and simple legal paperwork. AI-powered document support can lessen the complexities of legal processes for those without legal training. Likewise, these systems can aid legal professionals with drafting initial documents and increasing the efficiency of the legal process (Choi et al., 2023).

With generative AI, there are opportunities for legal summarization as well. Legal drafts can be long and complex, making them difficult to read for people who are not trained in the law. Simplified explanations provided by AI of legal problems and the situation can help people understand legal rights better.

In addition, generative AI can help resolve legal questions by providing quick answers to simple legal questions. It should be noted that while AI-generated legal material can be correct and useful, it is prone to mistakes and misunderstandings as well. Therefore, human oversight in legal matters is necessary, especially in complicated cases (Magesh et al., 2024).

d. Intelligent Chatbots and Virtual Legal Assistants

Practical applications of artificial intelligence that help users interact directly with legal information systems are intelligent chatbots and virtual legal assistants. These applications use technologies such as natural language processing and machine learning to interact with users via web pages, mobile applications, or messaging tools.

One of the main benefits of using AI chatbots is their ability to provide legal information assistance 24/7. Unlike traditional legal aid clinics with limited working hours, AI-powered assistants are able to give an instant response at any time. Round-the-clock service is especially helpful for people who face urgent legal issues.

Also, AI chatbots can perform a client screening service by gathering basic information about client's legal problem and determining client's eligibility for legal aid services. This helps legal aid providers to manage their resources effectively and refer clients to proper services.

Moreover, virtual legal assistants can provide a referral service by referring people to lawyers, governmental agencies, or other sources of legal information. These systems may work as an introduction into legal system as a whole.

2.3 AI-Based Legal Aid Models

The impact of AI in the field of Legal Aid has been felt through the creation of new models of service delivery which have seen the incorporation of technology into legal practice.

AI-Powered Legal Clinics

AI-powered legal clinics can be viewed as a combination of legal knowledge possessed by humans and artificial intelligence technology. In these clinics, AI plays a role in performing routine activities such as information gathering, preparation of documents, and handling clients. As a result, lawyers are able to handle complicated cases involving legal work. This model of legal aid enables organizations to serve more clients (Susskind & Susskind, 2022).

Online Justice Platforms

Online justice platforms offer digital spaces that enable people to gain access to legal data, file claims, receive guidance, and solve disputes not face to face. These platforms are especially helpful for those who have geographical or financial restrictions to traditional legal services. Online dispute resolution systems illustrate the benefits of technology in enhancing access and efficiency in the justice systems (Katsh & Rabinovich-Einy, 2017).

Government-Supported AI Legal Portals

Governments have been exploring AI-enabled portals of legal information geared towards offering the citizenry access to information on legal affairs. Such portals are able to offer information on rights, process, services, and obligations. The involvement of the government is expected to improve credibility, scalability, and consistency with the existing legal institutions.

Hybrid Human-AI Legal Services

The future legal services will be sustainable where there are hybrid systems comprising of human-legal professionals alongside AI. AI will perform data analysis and other repetitive functions, but human legal professionals will provide guidance, ethics, and empathy. This kind of approach recognizes that there are elements of humanity in dispensing justice in society (Susskind & Susskind, 2022).

3. Opportunities and Benefits of Artificial Intelligence in Legal Aid Delivery

Artificial Intelligence (AI) has become a major technological advancement that can help revolutionize the delivery of legal aid services. AI can solve a number of problems in the access to justice that have long plagued the system, such as through advanced data processing, natural language understanding, automation and prediction. Maintaining traditional legal aid systems is fraught with challenges of resource allocation, cost, lack of legal professionals, and access to the poor. AI-powered solutions offer potential for increased legal services, efficiency, and inclusive justice systems. But, the ability of AI to deliver legal aid is grounded in the idea of responsible implementation, appropriate regulation, and ongoing human oversight (Susskind & Susskind, 2022).

3.1 Improving Access to Justice

One of the greatest barriers to the justice system that exists around the world is accessing the system. Access to legal services is problematic for many people, especially those from low-income backgrounds, rural communities and socially marginalised groups, because they lack the resources to be able to access legal services, have limited geographical access, or lack awareness of the legal system. AI technologies provide new opportunities to overcome these barriers by delivering accessible and scalable legal support services.

AI's greatest impact is likely its ability to deliver legal information to underserved communities. Legal platforms that use AI can provide people with simple details regarding their legal rights, legal processes, and also available lawful choices, without forcing them to instantly hire a lawyer. For instance, those dealing with employment conflicts, family matters, housing concerns, or consumer grievances can leverage AI-driven systems to grasp their legal rights and figure out suitable actions to take. They are especially useful in areas where there are fewer lawyers available or those that don't know what legal resources are available to them (Ashley, 2017).

AI also has the potential to overcome geographical obstacles to access to traditional legal aid. Legal aid offices and professional lawyers are more readily available in cities in many developing countries while rural populations face restricted access to legal help. AI-powered legal platforms that offer online assistance can be accessed via websites, mobile apps, and digital communication channels. This allows people in geographically distant locations to get preliminary legal advice without having to physically go to a court or the legal offices (Katsch & Rabinovich-Einy, 2017).

One of the other benefits of the AI systems is that they can help people who lack access to lawyers. Preparing legal documents and guiding users through legal procedures is one area where AI legal assistants can be helpful before they seek legal advice, by offering initial guidance and clarifying legal processes. While AI may not be a substitute for a legal professional, it can be a valuable initial touchpoint in the legal system. This is especially helpful for those who need to receive information quickly when they are unable to immediately get legal help (Surden, 2019).

These are such as online legal guidance platforms and automated rights information systems. Internet-based platforms offer interactive legal education, answer to common questions, and direct to useful legal resources. Automated rights information systems can help to clarify the government services, legal duties and available remedies in simplified language. These can help in the empowerment of the law in the sense that they help people to know and utilize their rights better (Golub 2003).

3.2 Reducing Cost and Increasing Efficiency

One of the biggest problems that legal aid providers encounter is having less money and at the same time, having more requests for legal aid services. AI can be used to streamline repetitive and time-consuming legal processes, cutting down on operational expenses and improving efficiency. AI can complement, not supplant, human legal counsel and legal aid providers by enabling them to concentrate on sophisticated cases that demand expert judgment and person-to-person interaction. AI should not endanger the job of a lawyer or legal aid worker, but rather complement their work to let them focus on more complex cases that require expertise and human interaction.

One of the most notable uses is the automation of repetitive legal work. Often, legal aid organizations dedicate significant time to administrative tasks like client intake, document organization, case categorization, and preliminary legal research. AI systems can streamline many of these tasks, minimising administration and enabling businesses to manage more cases using their current capacity. (Ashley, 2017).

AI may also be used to streamline the legal document processing workflow. Attorneys frequently have to review extensive amounts of paperwork, such as applications, contracts,

court records, evidence materials, etc. Machine learning and natural language processing can be used to identify key information, legal concerns, and structure information effectively in documents. This has a great impact on the efficiency of document review as well as the overall service delivery (Surden, 2019).

The other benefit is that it saves a lot of time on administrative tasks. Legal aid organizations can benefit from AI-powered case management systems that can automatically handle case tracking, scheduling, deadline management, and client information organization. These improvements improve the efficiency of institutions and enable legal aid providers to focus more on direct client services.

These can range from automated application preparation systems to platforms for AI-powered document review. Application systems may be automated to help people navigate through legal forms to find required information and minimize errors in applying for them. Legal document review systems can review legal documents and identify pertinent details, which can aid legal representatives in preparing cases more efficiently. The applications are especially helpful in high-volume law firms that deal with many clients and have less staff to work with (Susskind & Susskind, 2022).

3.3 Enhancing Legal Information Accessibility

Generally, everyday consumers of legal information may lack the technical competence and expertise to comprehend legal information. Legal language is complex and presents a major barrier, as people may have legal rights but not the knowledge to access them effectively. AI technologies can assist in making legal information more accessible by breaking down complex legal documents into digestible and tailored information.

AI has made a significant impact in legal domains by making the language more comprehensible. Natural Language Processing systems have the ability to process legal documents and communicate the information in more understandable terms. It could help all but the legal profession to comprehend laws, regulations, court processes, and legal documents. It's through better understanding that one can become more empowered legally and thus more effectively involved in the legal process (Surden, 2019).

AI can also aid in translation to local languages, thus breaking language barriers that hinder access to justice. In multilingual societies, people might find it difficult to access legal information because the legal documents are typically provided in dominant languages. Legal information can be translated using artificial intelligence to serve different communities in multiple languages to boost inclusiveness.

In addition, AI facilitates personal legal advice because it tailors information to suit the individual. Instead of offering general legal information, AI is able to determine the user's specific scenario and offer advice accordingly. In case someone seeks information on their rights, they are provided with information that is customized to their situation, geographic location, and legal issue.

3.4 Supporting Legal Professionals

AI must be perceived as an automated tool that, in terms of legal aid, should assist in strengthening the capabilities of lawyers rather than replacing them. In addition to technical skills, there are also some other aspects of legal practice that involve ethics, empathy,

negotiation, as well as knowledge about people. These aspects can be enhanced by AI due to increased efficiency and analysis.

Case research is one of the major fields of application. Using the technology, it is possible to analyze numerous sources of legal information, including statutes, case law, as well as legal opinions, and, thus, save time and efforts for lawyers. As a result, the burden of research can be significantly reduced, and lawyers will be able to concentrate on developing an effective legal strategy (Ashley, 2017).

Moreover, the use of artificial intelligence (AI) may help to scan legal documents, find crucial clauses, obtain facts, and detect inconsistencies in legal documents. This is especially helpful for attorneys providing legal aid in case of a heavy workload.

One more application deals with the arrangement of the evidence. AI will be able to classify evidence, show relationships between documents, and help prepare case files. This will be especially beneficial in complicated cases when there is a lot of information.

Also, AI helps to manage workflows as AI will optimize schedules, control cases, and distribute resources. Management systems based on AI will be able to control workloads and coordinate services better, which means that legal aid organizations will be able to manage their workloads effectively (Susskind & Susskind, 2022).

3.5 Strengthening Government Legal Aid Services

Access to justice is an essential function of the government, and there is a way of using AI to provide additional legal services to the general public. The use of AI for governmental purposes could lead to an increase in the provision of legal services, improvement in the efficiency of administration, and facilitation of communication between people and justice agencies.

Public legal assistance programs will definitely benefit from the introduction of AI. The government can set up legal information services powered by AI that provide citizens with legal advice about their rights and procedures, as well as possible assistance services. AI can also assist in developing ODR systems that resolve certain disputes online without going to court. This would allow for more efficient dispute resolution because parties could use communication platforms provided by ODR systems to solve their disagreements (Katsh & Rabinovich-Einy, 2017).

Moreover, artificial intelligence (AI) can assist in judicial procedures by facilitating such processes as case management, scheduling, legal research, and other administrative tasks in courts. The AI-supported judicial systems may contribute to making the process more efficient and avoiding case delays, an issue which becomes increasingly relevant because of increasing number of cases. In judicial AI systems, it is crucial to have tight safety measures in place for the sake of fairness, transparency, and judicial independence (Završnik, 2021).

In conclusion, the possibilities of applying AI in order to make legal aid provision more effective are many, including increased accessibility, lower costs, higher efficiency, and better legal aid itself. However, the above-mentioned benefits will only be achieved in case of careful application and control.

4. Legal Challenges and Regulatory Issues of AI-Based Legal Aid Systems

The use of Artificial Intelligence (AI) technology in the process of providing legal aid can have considerable advantages in terms of increasing access to justice, cutting down expenses, and making the process more efficient. Nevertheless, the introduction of AI technology into the legal aid service sector raises several complicated legal questions. AI systems working in the field of law have an influence on people's rights, court verdicts, and processes of justice. Unlike other types of technology, AI application in the field of law has actual consequences for rights, results, and access to justice. Therefore, problems of accountability, privacy, fairness, reliability, and intellectual property deserve thorough consideration.

4.1 Accountability and Responsibility

Ensuring accountability during scenarios whereby AI technology has propagated misleading and false information within the legal sector remains one of the biggest problems facing legal aid systems utilizing AI. While the conventional legal practice is based on professional responsibility whereby the attorney is held liable for all his/her legal advice and decisions, the use of AI technology has brought forth various actors in the decision-making process, such as technology developers, regulators, service providers, and the user. This shift in responsibility creates liability issues when the AI system propagates misleading legal advice and impacts negatively the rights of an individual (Surden, 2019).

One of the biggest issues is who should be held primarily responsible: developers, the law, or users. AI's developers could be held accountable for technical issues, poor training data, or inadequate safety measures. AI developers may be held liable for technical problems, training data issues, or lack of safety features. Technology suppliers are also responsible for making sure that their systems function properly and openly. But simply using AI tools in legal institutions is not a way to circumvent accountability. To ensure that appropriate safeguards are put in place and that users are aware of the limitations of the information generated by AI, organisations offering AI-based legal assistance must establish such safeguards. (European Commission, 2020)

Therefore, it is essential for the responsible use of AI in legal aid systems to have human oversight. AI should serve as a tool for decision-making and not as a substitute for legal judgment. AI recommendations should be reviewed by a human professional, especially if they have important legal implications, are for vulnerable individuals, or the facts are complex. The concept of meaningful human control is gaining prominence in the field of trustworthy governance of AI (OECD, 2019).

Professional accountability structures need to adapt to AI in legal practice as well. AI tools should be used in a responsible and ethical manner, and legal firms need to create a framework for their use, including guidelines on verification, confidentiality, and professional supervision. Legal practitioners and legal aid providers must retain the responsibility to support the technology-assisted services in order to maintain their professional ethical practices. Artificial Intelligence does not replace the responsibility of professionals, which includes being competent, confidential and accountable to their clients (American Bar Association [ABA], 2023).

4.2 Data Protection and Privacy Concerns

Legal aid entails processing confidential and sensitive information like personal identity, financial position, family details, criminal issues, employment-related issues, and attorney-client privilege. The use of AI in such an environment poses major threats related to data

security, privacy, and cyber security. Since AI is dependent on large amounts of data to function effectively, proper data governance is crucial for maintaining the public trust.

The first concern related to this is data security in legal aid cases. Conventional lawyers use attorney-client privilege as a method of safeguarding data received from their clients. With AI in place, sensitive legal data will be processed by the third-party vendor. This makes it important for the AI systems used in the legal aid context to ensure data confidentiality and security (Remus & Levy, 2017).

The other major concern is that of personal data. AI is able to process, collect and store personal information, which includes information that does not relate to the service being offered by the organization. The excessive amount of collected information is a risk factor when it comes to misuse of the data, and that is why data protection concepts are important here.

The General Data Protection Regulation of the European Union offers an important framework through which to address privacy issues arising from artificial intelligence. The key principles of the GDPR require that the data is processed lawfully, fairly and with accountability; is minimized; and is processed in a way that protects individuals' rights in relation to automated processing (European Union, 2016). The principles are very significant to AI-based legal aid systems as they emphasize the need for proper data management and the absence of any harmful implementation of AI technology.

In addition to the GDPR, good data governance is required to have a successful AI-based legal aid system. This should include clear guidelines on how data will be collected, stored, accessed, protected from Internet threats, and shared. The legal databases, in particular, are very attractive targets for any Internet threats, thus requiring strict cybersecurity practices. The improper usage of the information in such systems may cause serious harm to vulnerable people.

4.3 Algorithmic Bias and Discrimination

One of the biggest ethical and legal issues with AI-driven systems for providing legal aid is algorithmic bias. AI systems are trained on patterns from past data, so any social, institutional or legal inequities found in the training data can be reflected or amplified by the systems. The recommendations and outcomes of AI systems may be inaccurate or unfair if they are based on historical, discriminatory practices or unequal treatment of certain groups (Barocas & Selbst, 2016).

AI applications can also generate biased recommendations for law enforcement, such as those for case prediction or assessment, that could impact marginalised groups – including the economically disadvantaged, ethnic minorities, or socially vulnerable groups. There could be bias due to limited data, unequal representation of some communities, etc. or historical patterns of discrimination in the legal records.

Discrimination risks are heightened in legal aid systems, which are intended to help those who are vulnerable. Technology can end up exacerbating inequalities over the provision of accurate information or highquality recommendations to specific groups if the AI tools deliver less accurate information or recommendations of lower quality.

There are a number of steps that can be taken to mitigate algorithmic bias. One key step that organizations must take is fairness auditing, where AI systems are assessed for their fairness across various demographic groups. It is possible to detect discriminatory patterns through regular assessment and take corrective action.

Secondly, AI developers must employ a wide variety of and representative sets when developing a Legal system. Data should not ignore or exclude specific populations to avoid the risk of excluding them because of their social contexts, language, geographic location, or legal experience.

Third, algorithms and approaches to AI that can be discussed transparently and explained in a way that is understandable by human beings are needed for better accountability. The user and legal professionals should be able to comprehend how recommendations are being generated by the AI system and what might be causing bias. Explainable AI (XAI) techniques can aid in boosting trust and enable human reviewers to question poor performance (Arrieta et al., 2020).

4.4 Accuracy and Reliability of AI Legal Advice

Another significant issue with AI legal advice is the accuracy and reliability of the output. Another critical challenge with AI legal advice is the accuracy and reliability of the provided answers. The interpretation of facts, statutes, judicial decisions, and social contexts is important for legal systems. AI systems can handle vast amounts of legal data, but may not grasp the nuances and intricacies of legal reasoning, nor be fully attuned to the contextual nature and uncertainty of legal analysis. The first problem is misinterpretation of the laws. AI models might misunderstand legal terminology, misinterpretation of law, and even spread misinformation, especially in cases where statutory provisions are under development. Although AI works with statistics and data, human lawyers have the ability to think about the social and factual context outside the formal one.

Hallucinations represent an important issue related to generative AI, which generates information that is credible but inaccurate and without any basis. Misquotation of cases' references, legal provisions that are not accurate or misinterpretation of law can lead to serious results for the recipient of AI-generated information (Magesh et al., 2024).

Further limitations of artificial intelligence are associated with its poor contextual comprehension capability. Emotional, cultural, social, and factual complexities cannot always be addressed through automated analysis in different kinds of legal disputes. Judgment, empathy, and strategic skills of human lawyers will always be needed.

AI-aided legal systems need to have strong verification processes in place. There are certain restrictions on the use of data generated by AI which need to be verified against credible legal sources. Human judicial evaluation will still be necessary, especially in complex cases, within the criminal law realm, and in cases having important legal implications.

4.5 Intellectual Property and Ownership Issues

It should also be considered how artificial intelligence (AI) impacts legal aid in terms of intellectual property (IP) issues and ownership. AI tools use numerous legal databases, copyrighted materials, and proprietary algorithms. Ownership and protection of AI-generated legal documents and underlying legal materials are still complicated issues.

Ownership and attribution of legal documents that are generated with AI assistance is one of the main problems. If a contract, application, legal summary, or some other document is created with the help of an AI system, there might be questions about the owner of the document – the user, the legal institution, the AI provider, or someone else. Current IP regulations are mostly based on human creativity, and they are not ready to accept documents generated by AI systems.

Moreover, protection of legal databases is complicated. AI systems used in legal research use numerous case laws, statutes, legal comments, and other sources of information. Companies that create such databases and support them might be interested in preventing other entities from copying and using their databases for commercial purposes.

The topic of the copyright implications of the usage of the legal materials in the training of artificial intelligence algorithms has been quite actively discussed in the recent years. In case if the AI developers use copyrighted material, like legal publications and professional resources, they have to deal with the legal aspects of its usage in terms of copyright law, fair use, and licensing deals. In other words, the usage of the copyrighted material, including the legal publications and professional resources, brings up a whole range of the legal issues, which are related to copyright law, fair use, and licensing deals. It is important to find a proper balance between the regulatory instruments.

To summarize, the problems related to the issue of the intellectual property illustrate the importance not only of the technological innovations within the field of legal assistance but also the need of the new legal approaches to be developed.

5. Ethical Perspectives on AI-Based Legal Aid Delivery

As Legal Aid providers incorporate more and more AI into their service delivery models, there is an array of ethical issues that they must grapple with, which go beyond just questions of efficacy and efficiency. The reason why is because access to legal assistance is critical not only for justice but also for the liberties of the individual. As such, when deploying AI technologies within this domain, there must be solid ethical principles that underpin this process. It should be noted that, unlike the commercial use of AI, legal aid is inherently a matter of justice, and hence ethics plays an important role.

5.1 The Principle of Justice and Fairness

Justice and fairness form the essence of the ethical use of AI technology in legal aid services. Equality is the major goal pursued by legal aid services and it is necessary to make sure that justice is available to everyone regardless of their socio-economic status or location. Thus, the application of AI technologies to the provision of legal aid services must promote equality and not introduce new barriers.

AI may serve as the means of promoting justice through improving the availability of legal information and lowering the costs associated with legal processes as well as assisting people who might not have access to qualified legal aid. AI-based platforms may offer basic legal services to people who do not have access to professional legal help. Thus, AI technologies may level the inequality in the access to legal aid and law institutions in poor and rural areas (Cappelletti & Garth, 1978).

While technology itself does not necessarily imply fairness, there exists a danger that AI technologies will be creating and amplifying social inequalities because of the biased nature

of the data, perspective, and processes involved in their design. Algorithms of AI are based on historical data, which, in its turn, includes previous patterns of discrimination based on existing legal, societal, and institutional records (Barocas & Selbst, 2016). Thus, if historical legal data are biased in any way, AI technologies that use them can produce recommendations that are detrimental to some societies.

In order to ensure the promotion of fairness within AI technologies in the field of legal aid, certain precautionary actions should be taken. First of all, such actions include bias detection, diversity of datasets used for analysis, and consistent evaluation. AI technologies should be designed with the benefit of all parties in mind, particularly those who are in need of legal aid and most vulnerable to the problems connected with inequality in the field.

5.2 Transparency and Explainability

Ethical considerations for AI systems in legal aid settings include transparency and explainability. The impact of legal decisions and recommendations on individuals' rights and responsibilities can be profound, and users and legal practitioners need to be aware of how AI systems make their conclusions or recommendations.

The lack of transparency is an issue of “black box” decision making where the user will get an AI output without being able to understand what the reason for the output is. In legal settings, this has the potential to damage trust and make it challenging to contest incorrect or impartial recommendations. When individuals receive legal assistance they have a legitimate right to know why a specific recommendation has been made, as well as what has affected the decision-making process (Pasquale, 2015).

To solve this problem, explainable Artificial Intelligence (XAI) aims to create techniques that ensure the comprehensibility of AI decision-making processes to humans. XAI does not have to be a disclosure of all the technical aspects of an algorithm, but rather it is meant to offer explanations as to how and why a system has arrived at its conclusion (Arrieta et al., 2020). Explainability becomes crucial in AI-powered legal aid platforms where users might not be technically savvy and rely on AI-generated information for critical legal decisions.

Transparency is also necessary for accountability, as algorithmic transparency is. When implementing AI systems, legal aid providers must communicate to users the use of the system, the types of information being utilized, the limitation of the AI-generated legal advice, and the process for review. Transparency enables legal practitioners, regulators, and users to assess the fairness and responsibility of AI systems.

Also, think about the importance of explainability in the context of due process. In the case where the use of AI technology results in generating legal advice, the users will have the opportunity to inquire about, challenge, and correct the wrong output. Thus, transparency is not just a feature of reliable AI-powered legal support, but it is also an important element of reliable legal support (OECD, 2019).

5.3 Human Autonomy and Legal Decision-Making

Since artificial intelligence is becoming more widely used in legal counseling, it poses various ethical issues concerning human autonomy and proper use of automated decision-making in legal assistance. One of the most crucial ethical dilemmas is whether people should have complete confidence in the legal guidance provided by AI or AI should be an instrument for humans helping with legal counseling.

AI can facilitate quick access to legal data and analytics, but it cannot replace entirely the human expertise in legal issues. Automated solutions in legal decisions cannot always take into account all the aspects like fact analysis, ethics, emotions, and social environment of the situation. Furthermore, human attorneys provide professional judgment, empathy, negotiation skills, and individual circumstances understanding which are crucial for good legal assistance (Susskind & Susskind, 2022).

Relying solely on AI legal advice can pose risks, especially if users do not grasp the limitations of AI systems. People can often believe that given their lack of the full information or a mistake, AI recommendations are definitive legal conclusions. The probability is especially high for disadvantaged groups who might not be able to check whether information provided by AI is accurate themselves.

AI-powered legal aid should, therefore, allow users to be in the loop when deciding on legal matters and prevent the loss of human autonomy. Using AI to give information, guidance and analysis is OK, but people should still have the ability to make informed decisions about their legal affairs.

Human control is becoming more understood as a concept in AI ethics discourse. It is imperative that there be human oversight to ensure accountability and to ensure that decisions about people's rights are not made only by algorithms (European Commission High-Level Expert Group on Artificial Intelligence, 2019).

5.4 Professional Ethics and Legal Practice

Use of artificial intelligence (AI) by legal aid providers requires additional responsibilities on the part of lawyers. Despite the possibilities of using AI in legal practice, the use of AI should be based on compliance with the existing ethical responsibilities of lawyers, including competence, confidentiality, accountability, and loyalty to client interests.

Control over the AI tools used by legal aid providers is an important task of an attorney. Teachers and lawyers should be familiar with both benefits and weaknesses of AI tools before introducing them to their practice. The content produced by AI should not be considered sufficient without being checked for correctness and appropriateness by a lawyer (ABA, 2023).

The ethical responsibility of lawyers connected with confidentiality should be mentioned as well. Legal aid providers deal with extremely sensitive personal information of individuals, which might be accessed or misused by using AI tools. AI tools have to satisfy confidentiality standards and lawyers are responsible for that.

Moreover, there is the need to ensure that lawyers meet the responsibility of giving competent service amid the existence of technology-based instruments in artificial intelligence. There is the need for individuals to be competent in the use of new technologies and the application of the same in professional work.

In conclusion, there is the need for professional organizations to formulate clear guidelines on how AI is used in legal profession so that there is no unethical use. Some of the areas that should be covered include competency in the use of the technology, communication, confidentiality, validation of AI products, and accountability.

5.5 Digital Divide and Inclusion

Despite the enormous potential of artificial intelligence in improving access to legal services, however, there may be a possibility of developing new exclusion factors due to discrepancies in technological access. The digital divide is the uneven access to digital technologies, Internet connection, technological skills, and digital literacy among various groups of the population. AI-based legal aid systems accessible exclusively to people with adequate technological literacy are likely to exacerbate the already-existing inequalities.

In particular, it is possible to note a relatively small number of Internet connections, especially in rural areas and among poor populations. People who require legal advice at important moments might not have any access to the Internet as well as smartphones or personal computers to work with AI-based legal aid systems. Therefore, it is crucial to take into consideration other opportunities for accessing the resources.

It is also necessary to mention the issue of insufficient digital literacy. In order to make proper use of AI-based systems, it is required to know how to communicate with technology and analyze the information. Lack of digital literacy may lead to difficulties in using the service.

One more inclusion issue is related to language barriers. Minority groups might be excluded from AI-powered legal systems when they are only built in dominant languages. Hence, multilingual and culturally relevant approaches should be used within inclusive AI development.

In terms of policy-making, it is necessary to develop an inclusive AI legal aid system. The role of the government and legal agencies should be to make sure that technology complements, not replaces the traditional means of getting legal help. In order to achieve universal access to justice (UNESCO, 2021), both AI and people should work together.

6. Policy Framework for Responsible AI Adoption in Legal Aid Systems

6.1 Developing AI Governance Frameworks

The judicious integration of Artificial Intelligence into legal aid processes requires the formulation of governance policies that articulate clear guiding principles, regulatory processes, and institutions of governance. National AI Strategies are important in defining areas of AI development and its alignment with democracy and human rights considerations. AI governance entails the collaboration between governments, regulatory authorities, legal professionals, technology developers, and civil societies (Floridi et al., 2018).

National AI strategies must tackle issues like data governance, algorithms' accountability, digital infrastructures, and ethical practices. The OECD AI Principles highlight the importance of trustworthy AI in achieving sustainable inclusive growth, being human-centered, being transparent and robust, securing, and accountability (OECD, 2019). Likewise, the UNESCO Recommendation concerning the Ethics of Artificial Intelligence recognizes human rights, fairness, transparency, and human control through the life-cycle of AI (UNESCO, 2021).

When it comes to the usage of AI within the legal aid framework, the governance framework must provide explicit regulation of AI application in terms of responsibility, quality control, data protection, and appeal processes of recommendations made by AI. Inasmuch as legal aid

impacts people's rights, the application of AI in this process should be regulated in a much stricter manner than any ordinary business activity (Leslie et al., 2021).

As important as the regulatory framework is, institutional policy is equally important, since legal aid organizations need a set of policies regulating the process of AI usage. The policy must regulate AI applications, the process of human verification, the confidentiality of information, and other responsibilities.

6.2 Establishing Ethical AI Standards

The ethics of artificial intelligence provide the basis on which AI-based legal help systems are supposed to operate in an unbiased, transparent and responsible way. Several international guidelines propose a number of common principles of ethics, such as transparency, accountability, fairness, privacy, and human oversight (Jobin et al., 2019).

Transparency means informing users about AI use and the methods of forming automated suggestions. Transparency is especially important in this case because people have to rely on the data provided by AI in order to determine their rights. Lack of transparency may decrease user trust and impair their ability to challenge unjust results (Pasquale, 2015).

Accountability requires the appointment of responsible parties during all stages of using AI. Even though AI is able to provide suggestions on its own, full responsibility cannot be transferred to the machine. The task to ensure fairness and legality belongs to developers, legal agencies and professional users of AI (Floridi et al., 2018).

Fairness is an important aspect since AI could contribute to spreading the inequalities existing in the society and embedded in the historical dataset. To prevent discrimination, it is crucial to use auditing of algorithms, representative datasets, and monitoring (Barocas & Selbst, 2016).

Privacy issues matter when the system processes highly sensitive data regarding both the personal and legal aspects of people's lives. It is vital to follow the rules of law, confidentiality, and security when it comes to collecting and processing data (European Union, 2016).

In conclusion, human supervision is another aspect as it should be emphasized that AI should serve and assist rather than replace humans in making decisions. Human supervision ensures ethical considerations, context awareness, and taking into account individual cases in legal aid (UNESCO, 2021).

6.3 Capacity Building and Training

The successful implementation of artificial intelligence demands the cultivation of technological and ethical skills amongst lawyers, legal aid personnel, and citizens. In recent times, lawyers have needed digital literacy to understand AI systems, analyze the outcomes provided by automation, and ensure professional accountability while availing of services offered by technological assistance (Susskind & Susskind, 2022).

AI literacy among lawyers should include:

- Basic AI concepts and limitations
- Data protection principles
- Algorithmic bias risks

- Verification of AI-generated legal information
- Ethical responsibilities associated with AI use

The legal aid specialists will have to undergo special training since they will be dealing with vulnerable groups of people who can become very dependent on technology-driven legal assistance services. Training will be required not only in technical skills but also in terms of moral reasoning and client safety.

Educational programs aimed at informing the population about the benefits and limitations of AI-driven legal service will be important as well since the population will have to understand the benefits and limitations of such service. Without proper digital literacy, people can easily misinterpret the advice delivered by AI algorithms (UNESCO, 2021).

Universities and professional legal organizations should play a key role in promoting interdisciplinary studies in law, artificial intelligence, ethics, and public policy.

6.4 Public-Private Partnerships

Development of responsible AI-based legal aid solutions requires the involvement of various players. Collaboration between public and private sectors can help combine the power of government, expertise in law, innovations in technology, and social awareness.

Government agencies can provide regulatory environment, financial resources, and legitimacy of the institution. Law agencies can provide their expertise and ensure that the AI solutions comply with the legal and ethical requirements. Technology companies can provide technical expertise.

The civil society organization has an important role to play in being able to speak on behalf of those who are most vulnerable, and to ensure that AI is responsive to their needs. The involvement of stakeholders will help prevent the risk of the development of AI being driven by technological efficiency rather than social justice outcomes (Floridi et al., 2018).

Models of collaborative governance have become increasingly necessary for the development of AI in order to address the wide-ranging challenges associated with the use of AI (OECD, 2019; OECD Legal Instruments).

6.5 International Cooperation

Governance of AI requires international cooperation, as the technology goes beyond national borders and raises ethical, regulatory, and human-rights concerns for all nations. International systems enable the creation of principles and knowledge sharing regarding the responsible use of AI.

There are global frameworks set up by organizations like the OECD and UNESCO, which include trustworthy AI, respect for human rights, transparency, accountability, and international cooperation (OECD AI). Such frameworks are especially significant for developing countries, which might face issues with infrastructure, technological know-how, and regulation.

International cooperation can help developing countries by:

- Technical assistance
- Capacity-building programs

- Knowledge exchange
- Development of ethical AI guidelines
- Support for digital infrastructure

However, AI solutions should be adapted to local legal systems, languages, cultures, and institutional conditions. Developing nations must be cautious not to blindly follow foreign technology, taking into account considerations of justice and their social environments.

In the end, international cooperation can help ensure that artificial intelligence is used to promote just systems rather than to widen global inequalities.

7. Future Directions of AI-Enabled Legal Aid Systems

AI-based legal aid in future would presumably be determined by advances in technology and developments in legal procedures as well as increased demand. However, the efficiency of AI-based legal aid systems would be based on various aspects. While up until now AI has mostly been associated with information searching, analysis of documents, and routine work, future systems would presumably demonstrate more complex functionality, as well as be more interactive and institutionalized. Nevertheless, the effect that AI would have in future would be not only dependent on technologies but also ethics.

7.1 Future Trends

A significant trend that can be observed is that of the development of sophisticated AI legal assistants. Unlike previous technologies which made use of limited amounts of pre-established information, LLMs today possess the ability to understand complex questions, analyze legal texts and provide tailored answers. People or organizations can make use of such technology in order to understand the processes involved in the law, write legal documents and also locate appropriate legal sources. However, the usage of AI in legal assistance must always be paired with verification processes as legal accuracy and contextual understanding are important prerequisites of reliable legal advice (Ashley, 2017; Choi et al., 2023).

Voice-based legal support is another trend that is likely to shape the future of legal assistance. Such systems enable users to use voice to communicate with the assistant rather than having to type or write. Voice-based systems can be especially useful for elderly individuals, persons with disabilities, and communities with limited literacy. Voice-based legal assistants combined with natural language processing technologies can make legal services more accessible and user-friendly (Surden, 2019).

Multilingual AI-powered legal services can be seen as one of the emerging trends which will soon evolve into a reality. Language can often stand in the way of people receiving their legal advice and help, especially in multi-lingual states. The emerging AI technologies will be able to provide legal help in several languages and offer localized legal guidance. This would have great importance when considering marginalized communities who are often unable to access formal legal systems because of language barriers (UNESCO, 2021).

Predictive justice tools can also be considered an important trend to watch out for in terms of the future evolution of legal assistance. Predictive justice tools will use large amounts of legal data to identify patterns and predict outcomes and help lawyers make decisions. However, there are ethical questions raised in relation to predictive justice, such as algorithmic bias. That is why, instead of replacing judges and professionals, predictive justice should be seen as a tool for decision-making (Završnik, 2021).

7.2 Human-AI Collaborative Justice Models

However, legal aid systems are not likely to evolve into fully automated ones; it is rather expected that their future will involve the human-AI collaborative models of justice. The main idea behind the human-AI collaborative justice models is the idea of using artificial intelligence and lawyers in conjunction with each other so that the provision of legal assistance becomes more efficient.

In the human-AI collaborative justice model, AI is able to do some mundane and repetitive work such as the research of legal information, drafting, categorizing cases, scheduling appointments, and client screening. Through performing such activities, AI will allow legal aid organizations to save time and resources needed to complete them, which will make it possible for lawyers to pay attention to more complicated legal issues that require professional and ethical judgments (Susskind & Susskind, 2022).

It is likely that legal professionals will remain key players in such areas as legal strategy-making, negotiations, emotional support, and interpretation of complex situations. Some aspects of human thinking and judgment are difficult to replicate with AI due to the existing state of technological development. Therefore, AI must be considered an auxiliary technology.

Human-AI interaction can help in improving the involvement of citizens in legal assistance. In particular, artificial intelligence can provide instant information regarding law for citizens, whereas the human expert can provide assistance whenever needed. Such a strategy can help in creating an integrated system of legal aid.

7.3 Sustainable and Inclusive Legal Technology

It is important that AI-supported legal aid systems be sustainable and inclusive in their future trajectory in order to make sure that technological advancements contribute to the well-being of the whole population. The concept of accessibility needs to be considered in the creation of such systems because the use of AI by people who are technically savvy alone might lead to further inequalities.

Any future system should be developed in a way to be accessible to all possible users, including those who have disabilities as well as limited access to technological devices. It can mean making available several forms of communication, including mobile applications, voice-based interfaces, and even digital kiosks in local communities. Additionally, technology should be developed considering the interests of marginalized people.

Equity should become a basic principle in the development and implementation of future AI-based legal assistance systems. Legal professionals need to take into account the possibility of biased recommendations and make sure that AI-based solutions will not adversely impact marginalized groups. Fairness requires a diversity of training data, algorithmic auditing, and evaluation (Barocas & Selbst, 2016).

Security will become increasingly important as AI-based law enforcement systems collect sensitive personal and legal information. Secure cyber practices, privacy protection measures, and responsible governance of data will be crucial for maintaining trust and avoiding any possible harm to the user (European Union, 2016).

Trust is essential for the successful implementation of AI-driven legal assistance. The user has to maintain faith in technology, understand its limitations, and know when human legal advice is needed. Transparent and ethical governance will be crucial for making sure that AI helps justice systems (OECD, 2019).

8. Conclusion

The use of Artificial Intelligence (AI) has the ability to revolutionize the provision of legal aid. The traditional models of legal aid face various challenges such as high costs of legal aid provision, insufficient number of legal experts, geographical limitations, and high demand for legal help. However, the development of AI can solve the problems mentioned above by implementing automated legal information systems, intelligent assistants, legal document analysis software, multilingual capabilities, and digital justice services. In future, legal aid infrastructure might benefit from utilizing AI to enhance the process of delivering legal help to people by providing relevant legal information and helping lawyers to cope with their heavy workloads. It is crucial to note that underserved populations will benefit from the implementation of improvements brought about by the development of AI. However, it is important to keep in mind that technological development itself does not ensure justice delivery effectively and fairly. There are numerous legal and ethical challenges associated with using AI technologies to provide legal help. Hence, responsible AI adoption requires governance mechanisms that rely on transparency, accountability, fairness, privacy protection, and human control. Legal institutions, governments, technology companies, and civil society groups should work together to make sure that AI technologies are designed and deployed in accordance with justice principles and human rights considerations. The future of legal aid should not be viewed in terms of the development of technology that replaces lawyers with robots; the best way forward is probably the combination of human and AI technologies that would complement one another.

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