



## THE USE OF TECHNOLOGY AND ARTIFICIAL INTELLIGENCE (AI) IN LEGAL EDUCATION

By

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### Abstract

*The legal profession is rapidly evolving, driven by technology and artificial intelligence (AI). Traditional legal education methods struggle to equip graduates with the skills needed to thrive in this new environment. This paper explores how AI and technology can revolutionize legal education, creating a more engaging, effective, and accessible experience for students. A range of AI and technology tools can enhance legal education. Digital and virtual libraries provide vast, readily accessible resources. AI-powered research assistants, legal research bots, and citation generation software streamline the research process, saving time and effort. Virtual classrooms offer flexibility and scalability, allowing students to learn from anywhere in the world. Interactive simulations through virtual legal clinics, case management software, and simulated courtroom environments provide practical experience with legal scenarios. AI can even assist in assessment and certification, offering automated grading and plagiarism detection. These tools offer numerous benefits. AI-powered research tools enhance research efficiency and effectiveness. Virtual libraries and online platforms improve accessibility, making legal education more attainable. Virtual legal clinics and simulations help students develop practical skills. AI-powered tutors and mentors can personalize the learning experience. Finally, AI can streamline assessment and certification processes. Integrating AI and technology requires collaboration. Law schools need to invest in faculty training, develop dedicated courses on AI and the law, and update curriculums to incorporate these tools. Additionally, ethical considerations regarding fairness, equity, and responsible use of AI must be addressed. By embracing AI and technology, legal education can prepare future lawyers for the challenges and opportunities of the modern legal landscape. Educational institutions, legal education councils, and the government all have roles to play. Institutions need clear policies on technology integration, while the government can help negotiate affordable technology for educational use. Regulatory frameworks can ensure institutions meet technology-related benchmarks for accreditation. In conclusion, AI and technology offer a transformative opportunity for legal education. By integrating these tools thoughtfully and deliberately, we can create a future where legal education is more engaging, effective, and accessible for all students.*

**Keywords:** Technology, Artificial Intellectual, Legal Education and Regulatory frameworks

## 1.0 INTRODUCTION

As the world rapidly evolves in the digital age, the integration of technology and AI has become increasingly prevalent in various sectors. One area where this transformation is especially crucial is education and more particularly legal education. Traditional legal education methods are being challenged by the need to adapt to the changing landscape of the legal profession and the demands of a tech-savvy generation.<sup>1</sup> In this context, there is a pressing need to rethink the mode of legal education to ensure that future legal professionals are equipped with the skills and knowledge required to thrive in an AI-powered world. This article explores the dynamic relationship between AI, technology, and legal education and highlights the imperative for a modernized approach to legal training.

### 1.1 Meaning of Technology, AI their Intersection and Legal Education

For proper understanding, it is expedient to have a working definition for the keywords in this research. Technology can be said to be the practical application of scientific knowledge, particularly in the industrial sector.<sup>2</sup> However, this definition by Collins seems too narrow for the evolution of technology. It would be better to define it now as the use of scientific knowledge and skills to create tools and processes that solve problems and improve people's lives. It is the use of scientific knowledge to solve practical problems. This definition is more inclusive, as it encompasses all aspects of technology, from the simple to the complex and a better representation of technology in today's world.

On the other end, AI is a broad field of computer science concerned with building smart machines capable of performing tasks that typically require human intelligence.<sup>3</sup> It is a broad field of computer science that deals with the creation of intelligent agents, which are systems that can reason, learn, and act autonomously. AI seeks to create computer systems and models that exhibit intelligent behaviours, such as problem-solving, learning, reasoning, and decision-making, akin to human cognitive processes. These intelligent behaviours enable AI systems to perform tasks that traditionally require human intelligence, making them valuable in a wide range of applications, from natural language processing and image recognition to autonomous vehicles and medical diagnostics.

Legal education on its own is the process that empowers aspiring lawyers, judges, administrators, counsellors, and legal scientists with the knowledge of how the government's legislative, executive, and judicial branches are structured and function in society.<sup>4</sup>

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<sup>1</sup> Roux-Kemp AL, 'A Policy Agenda for Legal Education and Training and the Fourth Industrial Revolution: The Case of England and Wales' [June 28, 2021] *Journal of law, technology and trust* <https://doi.org/10.19164/jlitt.v2i1.1004> accessed October 6, 2023

<sup>2</sup> Collins S.M, *Dictionary of ICT* 4th Ed. Bloomsbury, London, (2004) 237

<sup>3</sup> Sarker, I.H. 'AI-Based Modeling: Techniques, Applications and Research Issues Towards Automation, Intelligent and Smart Systems', *SN COMPUT. SCI.* 3, 158 (2022). <https://doi.org/10.1007/s42979-022-01043-x>.

<sup>4</sup> Olubiya, Ifeoluwa, Ayobami Olaniyan, and Ngozi Odiaka. 'The Role of Technology in the Advancement of Legal Education and Practice in Nigeria.' [2015] *Afe Babalola University Law Journal* 1: 2

AI systems have the potential to revolutionize legal education by providing innovative tools and resources for students and professionals. These systems can offer interactive simulations, case analysis, and personalized feedback, enhancing the learning experience and preparing individuals for the complexities of the legal field. Additionally, AI can assist in legal research by quickly analyzing vast amounts of data and identifying relevant precedents, saving time and improving accuracy in legal analysis.

Technology and AI are two related but distinct concepts that intersect in the field of legal education. Technology refers to the practical application of scientific knowledge to create tools, machines, and systems that solve problems or make tasks easier. It encompasses a wide range of inventions and innovations, from simple devices like smartphones and computers to complex systems like the Internet and self-driving cars. Technology is about using knowledge and skills to develop solutions that improve various aspects of human life.

For example a smartphone is a piece of technology that combines hardware and software to provide features like communication, access to information, and entertainment. It has revolutionized communication by allowing people to easily stay connected through messaging apps like WhatsApp and social media platforms like Facebook. Additionally, the ability to access the internet on mobile devices has made it easier for individuals to quickly search for information, whether it's looking up directions, finding recipes, or researching a topic of interest.

AI is a subset of technology that focuses on creating computer systems capable of performing tasks that typically require human intelligence. These tasks include learning from data, recognizing patterns, making decisions, and solving problems. AI systems are designed to mimic human cognitive functions and can adapt and improve their performance over time.<sup>5</sup>

For example, virtual assistants like Siri and Alexa use AI to understand and respond to spoken language, allowing you to interact with your devices more naturally. From this example, it will be correct to say that technology and AI can be found in one single thing just like a phone having Siri or Alexa. The phone represents technology while the virtual assistant represents AI.

In essence, technology is the broader concept encompassing all the tools and innovations we create to make our lives better, while AI is a specialized field within technology that focuses on creating intelligent machines that can learn, reason, and make decisions, often with human-like capabilities

To better understand how technology and AI are being and be used, we will examine the most relevant technologies and AI tools, and discuss how they can be used to reshape legal education.

In other words, we will look at the specific technologies and AI tools that are being used in legal education today, and how they are changing the way that law is taught

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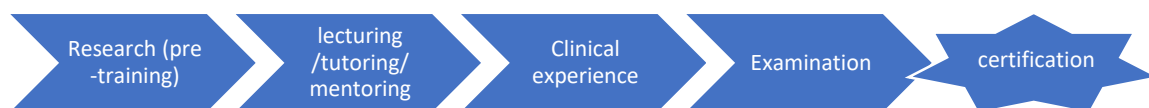
<sup>5</sup>The Power of AI in Legal Research | LexisNexis, <https://www.lexisnexis.com/community/insights/legal/b/thought-leadership/posts/the-power-of-artificial-intelligence-in-legal-research> accessed on 3rd Oct.2023

and learned. We will also discuss the potential impact of these technologies on the future of legal education.

## 2.0 THE USE OF TECHNOLOGY AND AI FOR LEGAL EDUCATION

Based on the relationship between technology and AI the two groups of tools would be discussed conjunctively on how they are and can reshape legal education. In creating a yardstick for this discussion, we will discuss these tools while looking at the various stages involved in legal training and how technology and AI have been and can be incorporated to give it a better value. Understanding this will directly serve as a pointer on what needs to be modified in the curriculum to improve legal education.

Legal education commences from research ( pre-training and in-training) to Lecturing / Tutoring / Mentoring, to clinical experience, to examination and certification.



- **Use of Technology and AI Legal Research:** Indeed, legal research is a fundamental starting point for legal education and training. It serves as the cornerstone upon which aspiring legal professionals build their knowledge and expertise. Legal research involves the systematic exploration and gathering of relevant legal information, which plays a vital role in educating and preparing future lawyers, judges, administrators, counsellors, and legal scientists. In this context, legal research in pre-training involves lecturers preparing lecture materials for students and in-training research involves the students learning more about what they have been taught. Legal research is indispensable in legal education as it is the foundation of legal practice. It provides students with access to primary sources of law, including statutes, case law, regulations, and legal literature. It forms the foundation upon which students build their understanding of legal concepts, principles, and doctrines. With technology and AI today, legal research has been brought closer than ever with the following tools.
- **Digital and Virtual Libraries:** The terms "digital library" and "virtual library" designate a library that provides access to a collection of distributed information in electronic format through local pointers or a collection of digital objects housed in

the same location, whether virtual or physical.<sup>6</sup>A digital library refers to a repository or collection of information and resources that are stored and accessed electronically. It offers users the ability to access a wide range of materials, such as books, journals, documents, multimedia, and other digital objects, through local or remote access points. These libraries make use of digital technology to provide efficient organization, searchability, and accessibility of digital content.

- Virtual Library: A virtual library, on the other hand, can encompass both physical and digital collections of information and resources. It is often used to describe a library that offers access to a collection of digital objects, either locally or remotely.<sup>7</sup> Virtual libraries may exist in a physical location, such as a physical library that provides access to digital resources, or they may be entirely web-based, offering digital content through online portals.

In both cases, the key feature is the utilization of electronic formats and technology to store, organize, and provide access to information and resources, whether they are physically housed in a single place or distributed across various locations. Technology can greatly enhance the efficiency and effectiveness of legal research. With AI and technology, legal professionals can access vast amounts of legal information and resources with just a few clicks, saving time and effort. These digital libraries offer advanced search capabilities, allowing users to quickly find relevant cases, statutes, and legal articles. Additionally, AI-powered tools can analyze and summarize legal documents, helping lawyers extract key information more efficiently. By leveraging technology in legal research, lawyers can stay updated with the latest developments in the law and give guided advice.<sup>8</sup> Examples of such libraries include HeinOnline<sup>9</sup>Nexis-Lexis,<sup>10</sup>Google Scholar, Westlaw, Legalpedia, Digital Public Library of America, Jstor, Darussalam Library, Legal Information Institute, Lawpavilion, Goali, Oxford Legal Research Library, amongst others. These libraries have given unprecedented access to information and research on the spot. Incorporating virtual libraries will improve legal education as it has many benefits, such as

**Accessibility:** Virtual libraries make it convenient to have constant, round-the-clock access to a variety of legal resources, lowering barriers to legal education. A simple search can generate a series of relevant materials.

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<sup>6</sup>Kaliammal, A. &Selvi, G. T. (2004) 'The virtual library: changing roles and ethical challenges for librarians', *INFLIBNET Centre*, p185

<sup>7</sup>Okebukola, P.'Key Issues in the Development of the National Virtual Library'(2002), *Education Today: A Quarterly Journal of Federal Ministry of Education*, 4(1), p. 4.

<sup>8</sup>The Power of AI in Legal Research | LexisNexis, <https://www.lexisnexis.com/community/insights/legal/b/thought-leadership/posts/the-power-of-artificial-intelligence-in-legal-research> accessed on 3rd Oct.2023

<sup>9</sup>HeinOnline is a renowned online study platform that offers more than 200 million pages of case law, important government papers, international resources, and multidisciplinary publications. The wealth of information, which is made up of fully searchable image-based PDFs which enables corporations, government agencies, law firms, courts, and other organizations to access authoritative, true-to-print digital material without the hassle or expense of using multiple research databases. See, [About - HeinOnlinehttps://home.heinonline.org/](https://home.heinonline.org/) Accessed on 2<sup>nd</sup> October, 2023

<sup>10</sup>[Welcome to LexisNexis - Choose Your Path, https://www.lexisnexis.com/en-us/gateway.page](https://www.lexisnexis.com/en-us/gateway.page) , Accessed on 2<sup>nd</sup> October, 2023

**Diverse Content:** They offer access to diverse legal content, including historical documents, primary sources, scholarly articles, and case law, enriching legal education with a broader perspective.

**Cost Savings:** Many virtual libraries offer free or affordable access to legal materials, reducing the financial burden on students and institutions. Being armchair accessible saves the cost of transportation to physical libraries.

**Enhanced Research Skills:** Virtual libraries encourage students to develop research skills by navigating digital databases and exploring a variety of legal resources.

**Global Reach:** Virtual libraries often include international legal materials, promoting a global perspective in legal education.

**Supplementary Materials:** Legal educators can use virtual libraries to supplement course materials, assign relevant readings, and encourage independent research.

Incorporating these virtual libraries into legal education can enhance the depth and breadth of legal research, providing students with valuable resources and promoting a well-rounded understanding of the law.

(a) **AI-Driven Legal Research Assistants:** AI-driven legal research platforms, chatbots, and virtual assistants provide legal professionals with instant access to relevant case law, statutes, regulations, and legal opinions, saving time and effort in manual searches.<sup>11</sup> AI-driven legal research assistants can perform a variety of tasks, such as:

- Finding relevant legal cases and statutes: AI-driven legal research assistants can use natural language processing (NLP) to understand the meaning of legal questions and to find relevant legal cases and statutes. Tools such as Lexis+ AI can do such tasks.<sup>12</sup>
- Analyzing legal documents: AI-driven legal research assistants can use NLP to extract key information from legal documents, such as the facts of the case, the legal issues involved, and the court's holding.<sup>13</sup>
- Generating legal summaries: AI-driven legal research assistants can generate summaries of legal cases and statutes, which can help lawyers quickly understand the key points of the law.
- Identifying trends in the law: AI-driven legal research assistants can use machine learning to identify trends in the law, such as changes in the way that courts are interpreting particular statutes. Ross Intelligence is an AI-powered legal research platform that uses NLP to understand the meaning of legal questions and to generate

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<sup>11</sup> Wilkinson A, 'How AI Is Revolutionizing Legal Research' (*Kira Systems*, September 28, 2023) <https://kirasystems.com/learn/how-ai-is-revolutionizing-legal-research/> accessed October 5, 2023

<sup>12</sup> 'The Power of AI in Legal Research | LexisNexis' (*Community*) <https://www.lexisnexis.com/community/insights/legal/b/thought-leadership/posts/the-power-of-artificial-intelligence-in-legal-research> accessed October 5, 2023

<sup>13</sup> For example see 'Contract Analysis' (*Contract Analysis*, September 28, 2023) <https://kirasystems.com/how-kira-works/contract-analysis/> accessed October 5, 2023

relevant legal information. Ross Intelligence can be used to find legal cases and statutes, to analyze legal documents, and to generate legal summaries.<sup>14</sup>

There are diverse ways AI-driven legal research assistants can be used to improve the efficiency and effectiveness of legal research and education.

A Lecturer or student can use an AI-driven legal research assistant to quickly find all of the relevant legal cases and statutes on a particular topic. This can save the lawyer a lot of time and effort, as they would no longer need to manually search through law libraries or online databases. For example, the query ‘liabilities of AI’ on the platform ‘Search Rabbit’ generated hundreds of relevant materials while also suggesting the level of relevance to the searched topics.

- Legal Research Bots and Chatbots: Legal research bots or chatbots, like DoNotPay,<sup>15</sup> ChatGpt,<sup>16</sup> Bard,<sup>17</sup> Perplexity AI<sup>18</sup> can answer legal queries, assist with legal research, and even draft simple legal documents using AI-driven conversations. As an AI-based chatbot, they respond to inquiries in natural language, covering practically every imaginable subject matter, and interact with the user conversationally by asking questions and giving prompts. It gains the ability to guess the next word in a sentence based on the context of the preceding words. It is quite simple to use, and the user can modify the discussion to produce the specific kinds of responses they're after. Beyond just providing legal answers, it can also write code, poetry, social media postings, blogs, and essays in a variety of languages.<sup>19</sup> It can also be used to solve legal as it has been tested to be capable of passing professional legal exams on average at least.<sup>20</sup>
- Citation Generation Software: This plays and can play a vital role in advancing legal education by simplifying the complex process of legal citation and enhancing the overall learning experience. AI-powered software such as EndNote,<sup>21</sup> Zotero,<sup>22</sup> Mendeley,<sup>23</sup> and Citavi,<sup>24</sup> automates the generation of citations and bibliographies according to specific citation styles like Oscola, Bluebook, APA, or MLA. These AI tools can foster proper citation and productivity. For instance, in legal writing courses, students can use citation software to effortlessly format their

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<sup>14</sup>‘ROSS Intelligence – Features’ (*ROSS Intelligence*) <https://www.rossintelligence.com/features> accessed October 5, 2023

<sup>15</sup>‘Save Time and Money with DoNotPay!’ (*DoNotPay*) <https://donotpay.com/> accessed October 6, 2023

<sup>16</sup>[ChatGPT \(openai.com\)](https://openai.com)

<sup>17</sup><https://bard.google.com/>

<sup>18</sup><https://www.perplexity.ai/>

<sup>19</sup>Ajevski M., Barker K, Gilbert A, Hardie L & Ryan, F. (2023) 'ChatGPT and the future of legal education and practice', *The Law Teacher*, 48(4), p.353 Available at <https://doi.org/10.1080/03069400.2023.2207426> accessed on October 6, 2023

<sup>20</sup>Bommarito II, Michael, and Daniel M. Katz. "GPT Takes the Bar Exam." ArXiv, (2022) <https://arxiv.org/abs/2212.14402> Accessed 6 Oct. 2023.

<sup>21</sup>‘EndNote 21 Features and Product Details | EndNote’ (*EndNote*, October 6, 2023) <https://endnote.com/product-details?language=en> accessed October 6, 2023

<sup>22</sup>‘Zotero | Your Personal Research Assistant’ <https://www.zotero.org/> accessed October 6, 2023

<sup>23</sup>‘Mendeley - Reference Management Software’ (*Mendeley.com*) <https://www.mendeley.com/> accessed October 6, 2023

<sup>24</sup>‘Citavi - Best Reference Management Software for Writing and Note Taking’ (*CITAVI.com*) <https://www.citavi.com/en> accessed October 6, 2023

citations, focusing more on the substance of their arguments rather than the intricacies of citation rules. These tools significantly reduce the risk of citation errors, such as missing page numbers or incorrect formatting, which can lead to lower grades and legal document rejection in real-world practice. Citation software streamlines the time-consuming process of manually formatting citations. It allows users to insert citations and create bibliographies with a few clicks, saving valuable time that can be allocated to legal research and analysis. These tools offer flexibility by supporting multiple citation styles, making them suitable for a wide range of legal courses and research projects. For example, a legal research seminar can include students with diverse research interests, and citation software can accommodate the various citation styles required for different legal disciplines. Citation software often includes features for organizing and managing research materials. It allows users to store references, PDFs, notes, and annotations in one central location, fostering better research organization.

- **Use of Technology and AI Tools for Lecturing / Tutoring / Mentorship:** the use of AI tools and technology in lecturing, tutoring, and mentorship in legal education is transforming the way students learn, instructors teach, and mentors guide aspiring legal professionals. AI tools and technology can be used in lecturing, tutoring, and mentorship in legal education in a variety of ways.
- **Lecturing:** AI-powered lecture assistants can help instructors develop and deliver more engaging and effective lectures. For example, AI-powered lecture assistants can generate personalized learning content, provide feedback to students, and answer student questions in real time.

AI-powered simulations can be used to create immersive learning experiences for students. For example, AI-powered simulations can allow students to practice arguing cases in a virtual courtroom or to negotiate contracts with virtual clients.

AI-powered analytics can be used to track student progress and identify areas where students need additional support. This information can be used to tailor lectures and other learning activities to the needs of individual students. One example of an AI-powered lecture assistant is Piazza. Piazza is a platform that allows instructors to create and manage online courses, and for students to ask questions and get help from their instructors and classmates. Piazza uses AI to help instructors answer student questions more quickly and efficiently. For example, Piazza can identify common questions and provide instructors with suggested answers. Piazza can also track student progress and identify students who are struggling with certain concepts. This information can be used by instructors to tailor their lectures and other learning activities to the needs of their students.<sup>25</sup> One such Learning Management System is Google Classroom.<sup>26</sup>

- **Tutoring:** AI-powered tutors can provide students with personalized tutoring on a variety of legal topics. For example, AI-powered tutors can help students to understand complex legal concepts, prepare for exams, and to write legal documents. These tutoring platforms can provide students with access to tutoring from anywhere, at any time. This can be especially helpful for students who live in remote areas or who have busy schedules. AI-powered tutoring platforms can also track student

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<sup>25</sup>Piazza - The New Way to Q&A, For Classrooms' <<https://piazza.com/school-search?>> accessed October 6, 2023

<sup>26</sup>Classroom Management Tools & Resources - Google for Education' (*Google for Education*) <https://classroom.google.com/> accessed October 6, 2023

progress and provide tutors with insights into student performance. This information can be used to tailor tutoring sessions to the needs of individual students.

- **Mentorship:** AI-powered mentoring platforms can connect students with mentors who have expertise in specific areas of law. For example, AI-powered mentoring platforms can match students with mentors who specialize in a particular type of law, such as criminal law or environmental law. AI-powered mentoring platforms can also provide students with access to mentorship from mentors who live in other parts of the world. This can be especially helpful for students who are interested in international law or who want to work in a law firm with offices in multiple countries. AI-powered mentoring platforms can also track mentor-mentee relationships and provide mentors and mentees with feedback on their progress. This information can be used to improve the mentor-mentee relationship and to ensure that students are getting the most out of their mentorship experience. Technology has also brought to the fore what we can call Virtual Office Hours. This means that instructors can set up virtual office hours through the AI assistant, allowing students to schedule appointments or ask questions during designated times. This fosters communication and engagement between instructors and students.

For lecturing, tutoring and mentoring, there is the option of virtual classrooms. Virtual classrooms offer some advantages over traditional classrooms, including:

- **Flexibility:** Virtual classrooms can be accessed from anywhere with an internet connection, at any time. This makes them ideal for students and practitioners who have busy schedules or who live in remote areas.
- **Scalability:** Virtual classrooms can accommodate large numbers of students without the need for additional physical space. This makes them ideal for large law schools or for courses that are offered to students from multiple locations.
- **Interactivity:** Virtual classrooms can provide students with interactive learning experiences, such as simulations and polls. This can help to make learning more engaging and effective.

Here are some specific examples of how virtual classrooms can be used for lecturing, tutoring, and mentoring in legal education:

**Lecturing:** A law professor could use a virtual classroom to deliver lectures to students from all over the world. The virtual classroom could include features such as live video and audio streaming, interactive whiteboards, and screen sharing. The law professor could also use the virtual classroom to record their lectures and post them online for students to view at their convenience. This would allow students to review lectures at their own pace and to focus on the topics that they need additional help with.

For tutoring, a tutor could use a virtual classroom to provide one-on-one tutoring to students. The virtual classroom could include features such as live video and audio streaming, interactive whiteboards, and screen sharing, document sharing and other resources with students. This would allow students to access the materials they need to succeed, even if they are not able to meet with the tutor in person.

A mentor could use a virtual classroom to meet with their mentee on a regular basis. The virtual classroom could include features such as live video and audio streaming, interactive whiteboards, and screen sharing. One of such virtual classes is Trueconf,<sup>27</sup> Zoom<sup>28</sup> and Google Meet.<sup>29</sup>

- **Use of Technology and AI in Clinical Experience:** AI and technology can significantly enhance clinical experiences in legal education by providing students with realistic, immersive, and technology-driven learning opportunities. Here are several ways AI and Technology has and can be used for clinical experience in legal education:
- **Virtual Legal Clinics:** AI-powered virtual legal clinics simulate real-world legal practice scenarios where students can interact with virtual clients, conduct legal interviews, offer legal advice, draft legal documents, and engage in negotiation and mediation exercises. For example, Law students can participate in a virtual clinic where they advise a simulated client on immigration law issues, using AI to access up-to-date legal resources and precedents. Virtual platforms earlier mentioned can also suit this purpose.
- **Case Management Software:** Technology offers case management software that helps students organize and track legal cases, manage deadlines, and collaborate with peers and instructors in a structured and efficient manner. Examples of such software include; Mycase,<sup>30</sup> Matterlink,<sup>31</sup> and LegalEdge<sup>32</sup> amongst others. With this for instance, in a criminal defence clinic, students can use case management software to keep track of court dates, evidence, and witness statements for their assigned cases.
- **Simulated Courtroom Environments:** Virtual reality (VR) and augmented reality (AR) technologies can create simulated courtroom environments, allowing students to practice trial advocacy, witness examination, and courtroom procedures in an immersive setting. Students can wear VR headsets to participate in a virtual mock trial, cross-examine witnesses, and present arguments in a realistic courtroom environment.

Some Universities across the globe have taken the lead in the use of AI and technology to improve the clinical experience in legal education today: The University of California, Berkeley School of Law uses an AI-powered simulation called CaseMatrix to provide students with clinical experience in negotiating contracts. In the simulation, students negotiate contracts with virtual clients. The AI-powered simulation provides students with feedback on their negotiating skills and helps them to learn how to negotiate contracts more effectively. The University of Chicago School of Law uses an AI-powered feedback tool called LawSummly to provide students with feedback on their legal writing. LawSummly analyzes students' legal writing and identifies areas where they need improvement. The AI-powered

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<sup>27</sup>‘Video Conferencing in the Classroom for Schools and Teachers — TrueConf’ (*TrueConf*) <https://trueconf.com/features/modes/virtual-classroom.html> accessed October 6, 2023

<sup>28</sup>‘One Platform to Connect | Zoom’ (*Zoom*) <https://zoom.us/> accessed October 6, 2023

<sup>29</sup>‘Google Meet: Online Video Meetings and Calls | Google Workspace’ <https://meet.google.com/?pli=1> accessed October 6, 2023

<sup>30</sup>‘Legal Case Management Software for Law Firms | MyCase’ (*MyCase*, September 25, 2023) <https://www.mycase.com/> accessed October 6, 2023

<sup>31</sup>‘Why BEC’ (*BEC Legal Systems*) <https://www.beclegal.com/about-us/> accessed October 6, 2023

<sup>32</sup>‘Best Legal Case Management Software | Online Case Management Software | LegalEdge’ (*LegalEdge*, March 11, 2021) <https://www.legaledge.com/> accessed October 6, 2023

feedback tool also provides students with suggestions for how to improve their legal writing.

By integrating AI and technology into clinical experiences, legal education can bridge the gap between theoretical learning and real-world practice, preparing students for the challenges and opportunities of modern legal practice. These innovations empower students with practical skills, ethical judgment, and technology proficiency, enhancing their readiness to serve clients and communities effectively.

- Use of Technology and AI for Legal Examination and Assessment: The use of technology and AI for examination and assessment is transforming the way schools and institutions evaluate the knowledge, skills, and performance of students. Here are several ways in which technology and AI can be employed in legal examination and assessment
- Online Examinations: Technology allows for the administration of online examinations, where students can take tests and submit assignments through secure online platforms. These platforms often include features like timer controls, random question ordering, and automatic grading. An example of such is Quiz Maker,<sup>33</sup>Classmarker<sup>34</sup>and Quikgecko.<sup>35</sup>
- Automated Grading and Data Analytics for Assessment: AI-powered assessment tools can automatically grade objective portions of exams, such as multiple-choice questions and certain types of essay questions, providing instant feedback to students. AI and data analytics tools can analyze student performance data, providing insights into areas where students excel or struggle. Instructors can use this data to tailor instruction and assessments accordingly.
- Plagiarism Detection: Plagiarism detection software, as discussed earlier, can be used to ensure the authenticity of written assignments and prevent academic misconduct. Plagiarism detection is a crucial tool for the examination and assessment of students in legal education, ensuring academic integrity, ethical standards, and the development of essential research and writing skills.<sup>36</sup>An example of a plagiarism checker is Turnitin<sup>37</sup>Grammarly<sup>38</sup> and AI Content Generator Detector.<sup>39</sup>
- Use of Technology and AI in Certification: The use of AI and technology in the certification of law students can streamline the assessment process, enhance the credibility of certifications, and ensure that graduates possess the necessary skills and knowledge for the legal profession. Here's how AI and technology can be employed in the certification process:

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<sup>33</sup>'Make Online Quizzes in Minutes - Quiz Maker' <https://www.quiz-maker.com/> accessed October 6, 2023

<sup>34</sup>'Online Testing Free Quiz Maker Create the Best Quizzes' (*ClassMarker Online Quiz Maker*) <https://www.classmarker.com/> accessed October 6, 2023

<sup>35</sup>'Quizgecko | AI Question Generator | Make a Test or Exam' (October 2, 2023) <https://quizgecko.com/> accessed October 6, 2023

<sup>36</sup> Singh A, Verma S and Thakur BK, 'ACADEMIC WRITING AND ISSUES OF PLAGIARISM' (*ResearchGate*, April 1, 2020) [https://www.researchgate.net/publication/340364014\\_ACADEMIC\\_WRITING\\_AND\\_ISSUES\\_OF\\_PLAGIARISM](https://www.researchgate.net/publication/340364014_ACADEMIC_WRITING_AND_ISSUES_OF_PLAGIARISM) accessed October 6, 2023.

<sup>37</sup>'Empower Students to Do Their Best, Original Work' (*Turnitin*) <https://www.turnitin.com/> accessed October 6, 2023

<sup>38</sup> 'Plagiarism Checker | Grammarly' <https://www.grammarly.com/plagiarism-checker> accessed October 6, 2023

<sup>39</sup>'What Is an AI Detector? + Why You Need to Start Using One Now' (*Content @ Scale*) <https://contentatscale.ai/ai-content-detector/> accessed October 6, 2023

- Online Certification Exams: Develop secure online certification exams that use AI-driven proctoring to monitor test-takers, ensuring the integrity of the certification process.
- ePortfolios: Encourage candidates to create ePortfolios that showcase their legal work, accomplishments, and experiences. Technology platforms can help candidates compile and present their achievements effectively.

From all the above forgone, it is clear that the relevance of Technology and AI tools to the development of Legal education cannot be overemphasized from training to certification to practice. What then remains is how to fully incorporate it to reap its benefits.

### **3.0 INCORPORATING TECHNOLOGY AND AI TOOLS IN THE CURRICULUM OF LEGAL EDUCATION**

To incorporate the use of AI and technology into the curriculum of legal education, relevant stakeholders must be willing to move the profession forward.<sup>40</sup> Here are some ways in which AI and technology can be incorporated into the curriculum of legal education: There are two things involved for the achievement of the above, the review of curriculum and the teaching on the use of AI for Legal education.

- Faculty Training and Development: Law institutions must embrace AI tools and study by developing available infrastructure to meet the requirements and use of Technology and AI tools. The training will involve the staff while the development relates to providing basics such as electricity and a good internet facility and purchase of these relevant tools.
- Dedicated Courses or Modules: Institutions should consider offering dedicated courses or modules that focus on the intersection of technology, AI, and the law. These courses can explore topics like AI ethics, cybersecurity, and the practical use of legal tech tools.
- Curriculum Review and Alignment: This can be achieved by updating the curriculum to include courses on AI and the law. Law institutions should incorporate AI-powered legal research tools into the curriculum of legal research to help law students and legal professionals conduct research more efficiently. In light of the adoption of AI and the emergence of open-source AI platforms like ChatGPT, students will need to be skilled with this technology when they transition into all types of work, not just legal work.<sup>41</sup>

### **4.0 ETHICAL CONSIDERATION ON THE USE OF TECHNOLOGY AND AI IN LEGAL EDUCATION**

- a. It is important to use AI tools and technology in a way that complements and enhances human instruction. AI tools and technology should not be used to replace human instructors. Instead, they should be used to provide instructors with tools and resources to help them teach more effectively.

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<sup>40</sup>‘Why Law School Curricula Should Include Courses on Artificial’ (*McGill Business Law Platform*) <https://www.mcgill.ca/business-law/article/why-law-school-curricula-should-include-courses-artificial-intelligence> accessed October 6, 2023

<sup>41</sup> Kristen Murray, ‘Take Note: Teaching Law Students to Be Responsible Stewards of Technology’ (2021) 70 *Cath U L Rev* 201 BowerMatt, ‘Virtual Classroom Pedagogy’ (*SIGCSE bulletin*, March 3, 2006) p.5 <https://doi.org/10.1145/1124706.1121390> accessed October 6, 2023

- b. It is important to ensure that AI tools and technology are used fairly and equitably. AI tools and technology should not be used to discriminate against students or to create barriers to access to legal education.
- c. It is important to teach students about the ethical implications of AI. Students should be aware of the potential benefits and risks of AI, and they should be able to use AI tools and technology responsibly and ethically.

To summarise, AI tools and technology have the potential to revolutionize legal education. By using AI tools and technology thoughtfully and deliberately, we can create more engaging, effective, and accessible legal education opportunities for all students.

## **5.0 RECOMMENDATIONS**

- i. Establish Clear Policies: Educational institutions and legal education councils should create clear policies and guidelines that mandate the availability and use of AI and technology tools in legal education. These policies should outline the objectives, requirements, and expected outcomes of technology integration
- ii. The government should assist and help negotiate with technology providers to offer subsidized or discounted rates for educational institutions.
- iii. Develop regulatory frameworks or standards for technology integration in legal education, ensuring that institutions meet certain technology-related benchmarks for accreditation

In conclusion, the integration of AI and technology into legal education represents a transformative opportunity for both students and institutions. It enhances the quality of legal education, equipping graduates with essential skills and competencies needed to excel in today's legal landscape. From legal research and examination to certification and practical experiences, technology-driven tools are shaping the future of legal education. To realize the full potential of this integration, institutions and legal education councils must adopt forward-thinking policies, provide access to necessary resources, and prioritize faculty training. Embracing technology in legal education ensures that the legal professionals of tomorrow are well-prepared, adaptable, and capable of navigating the complex challenges of the modern legal world.