

Chapter 15

Navigating the Legal Landscape: AI Adoption in Education and Teacher Responsibilities

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ABSTRACT

This research delves into the legal implications surrounding the adoption of artificial intelligence (AI) in the field of education and explores the corresponding responsibilities of teachers. As AI continues to shape the educational landscape, it becomes crucial to understand and navigate the legal framework governing its implementation. The study examines the legal challenges and considerations that arise when integrating AI technologies in educational settings and specifically focuses on the responsibilities that teachers bear in this context. By examining relevant laws, regulations, and policies, the research aims to provide valuable insights into the legal landscape of AI adoption in education and assist teachers in fulfilling their obligations while leveraging AI technologies responsibly.

INTRODUCTION

The United Arab Emirates (UAE) is at the forefront of embracing technological advancements, and the field of education is witnessing the transformative impact of Artificial Intelligence (AI). As AI technologies continue to shape the educational landscape, it is imperative to navigate the legal framework

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governing their adoption in accordance with UAE laws(Chan, 2023). This research delves into the legal implications surrounding the integration of AI in the UAE's educational domain and explores the specific responsibilities that teachers bear in this rapidly evolving context, The UAE's visionary leadership recognizes the potential of AI to revolutionize education by enhancing learning outcomes(Kadaruddin, 2023), promoting personalized instruction, and streamlining administrative processes. However, with these opportunities come legal challenges that require careful examination and adherence to the country's regulatory framework(Bozkurt et al., 2020), The primary objective of this research is to comprehensively explore the legal landscape surrounding AI adoption in education within the UAE's unique legal context. It will analyze the UAE laws, regulations, and policies that govern the use of AI technologies in educational settings, ensuring full compliance with the country's legal requirements, the study will highlight the critical responsibilities that UAE teachers' shoulder in the context of AI integration. As AI technologies increasingly become integral to the educational experience, educators play a crucial role in ensuring that AI is used ethically, equitably, and in line with the principles set forth by the UAE's legal framework, by examining relevant UAE laws and regulations, this research aims to equip teachers with the knowledge needed to embrace AI responsibly and make informed decisions in their classrooms(Kamp, 2020). Understanding the legal implications of AI adoption will enable educators to protect student rights, privacy, and data security while leveraging AI technologies to their full potential, in line with the UAE's commitment to innovation, this study will explore the legal considerations specific to the country's educational landscape, providing valuable insights to policymakers, educational institutions, and teachers alike (Abdallah et al, 2023). It seeks to facilitate a smooth integration of AI in education while safeguarding the rights and interests of all stakeholders involved, Throughout the subsequent sections, we will delve into the specific legal aspects and challenges related to AI adoption in the UAE's educational sphere. By addressing data privacy, intellectual property rights, liability, and other relevant concerns, this research will offer practical guidance for educators to fulfill their obligations in compliance with UAE laws (Abdallah, & Farhan, 2023).

As the UAE continues its journey towards a knowledge-based society, this research aims to contribute to the ongoing dialogue on responsible and ethical AI integration in education. By fostering a thorough understanding of the legal framework, we aspire to pave the way for a technologically advanced yet legally compliant educational landscape that ensures a bright future for students, educators(Nguyen, Ngo, Hong, Dang, & Nguyen, 2023), and the nation as a whole.

Artificial Intelligence (AI) adoption in education brings transformative opportunities and legal challenges. This study explores the legal implications of AI integration in the UAE's educational landscape and the corresponding responsibilities of teachers, and to achieve this goal we will address the subject of **the study as follows:**

LEGAL IMPLICATIONS OF AI ADOPTION IN EDUCATION

Teacher Responsibilities in AI-Enabled Classrooms

Legal Implications of AI Adoption in Education.

The widespread adoption of Artificial Intelligence (AI) in the field of education has ushered in a new era of transformative opportunities and challenges. As AI continues to shape the educational landscape,

it becomes crucial to examine the legal implications surrounding its integration. This study delves into the specific legal considerations related to AI adoption in education, focusing on the United Arab Emirates (UAE) legal framework, and is divided into two distinct parts.

Understanding the UAE Legal Framework for AI Adoption in Education

Education is a fundamental element for the development of a nation and the best investment in its youth, for that reason, the UAE Vision 2021 National Agenda emphasizes the development of a first-rate education system, which will require a complete transformation of the current education system and teaching methods (E. M. Alqodsi, Jadalhaq, & El, 2023). The National Agenda aims for all schools, universities and students to be equipped with Smart systems and devices as a basis for all teaching methods, projects and research (Abdallah & Alkaabi, 2023).

In this section, we will comprehensively explore the existing UAE laws, regulations, and policies that govern the integration of AI technologies in the educational sector. We will analyze how these legal frameworks impact various aspects of AI adoption (E. M. Alqodsi et al., 2023), such as data privacy, security, intellectual property, and ethical considerations. By gaining insights into the UAE's legal landscape, we aim to provide educators, policymakers, and educational institutions with a clear understanding of the legal parameters that govern AI implementation in classrooms.

Digital Transformation Journey in Education

The journey of education in the UAE has been through many milestones, beginning with its inception in 1971 when the percentage of those who read and wrote was very small. From then, the ministry worked with the support of the wise leadership to develop the educational system, whereby the UAE joined the United Nations Educational, Scientific, and Cultural Organization (UNESCO) in April of 1972. This was a remarkable acceleration in the development of education which continued to include free education in government schools for both males and females (Rodrigues, 2017). In 2012, H.E. Sheikh Mohammed bin Rashid Al Maktoum launched the Mohammed bin Rashid Smart Learning Initiative which comprised of all UAE's schools in an attempt to create a new educational environment within them. This initiative encompassed Smart classes in all schools, the distribution of tablets to all students, and the provision of high-speed 4G networks to all UAE's schools (Brooks & McCormack, 2020).

Moreover, the UAE has implemented a distance education system for all students as of March 22, 2020 which was implemented in public and private schools as well as higher education institutions. Additionally, the UAE has developed a system to effectively implement distance education, including offering specialized training for teachers to enhance their abilities to manage the educational process remotely.

Digital Transformation Committee

The Ministry of Education has also formed the Pioneers of Digital Smart Electronic Transformation Committee for the Ministry of Education services, headed by the Undersecretary of the Ministry of Education for Performance Improvement (Ahmed, Januel, & Fuenmayor, 2021).

The committee aims to ensure the provision of easy and simple services of high quality to customers. It also works to measure the level of public awareness on the Ministry's services and work towards enhancing awareness to boost the customer's use of these services (Abdallah & Abdallah, 2023).

Key Roles of the Committee

- Overseeing the digital transformation in MoE
- Ensure that all indicators of the smart government criteria are implemented.
- Supervising projects and initiatives developed by the Telecommunications and Digital Government Regulatory Authority
- Continuously monitoring sub-teams work related to smart Government indicators.
- Supervising the Ministry's preparation to assess the possible entity for smart government indicators—the Telecommunications and Digital Government Regulatory Authority – in coordination with sub-committees.

CUSTOMER TRUST AND CYBERSECURITY

Within the framework of the Ministry's goal of achieving the objectives of "secure educational environments,"(Ameen et al., 2021) and the United Arab Emirates in a safe digital environment. A comprehensive information security concept was developed by:

Having a security operation Center that works on monitoring, detecting and defending cyber-attacks 24/7 using the latest technologies like SIEM which is supported by Artificial intelligence. Also, monitoring more than 60,000 user devices and protect them from malicious activities using EDR.

Establishing a security incident response team that is available 24/7 to handle the incidents.

Conducting a rotational internal and external security assessment to find and mitigate the threat risk for more than 184 systems.

Manage the security risks of identifying assets.

Using the latest technology (Security Mail Gateway) to protect the emails attacks.

Developing information security policies for cyber-security.

Performing a cyber-Security awareness has increased the security awareness compared to the previous years.

Building a partnership with security and local authorities

Annually, the Ministry's website undergoes an evaluation by a team from the Telecommunications and Digital Government Regulatory Authority to ensure that it is achieving excellence in the indicators of smart government enablers and to enhance the quality of its electronic presence.

This is done at the end of each year by monitoring and measuring the level of commitment of the federal entities to smart government enablers and indicators and to implementing the standards set by government guidelines.

NAVIGATING LEGAL CHALLENGES AND ENSURING COMPLIANCE

The incorporation of artificial intelligence (AI) into the education system gives rise to intricate legal obstacles that require thorough consideration. This section aims to pinpoint and examine the particular legal hurdles that educational stakeholders might face while embracing AI technologies. Our focus will encompass essential matters like data protection, student privacy, liability, and transparency, all of which are crucial for adhering to UAE laws and regulations(Solaiman, 2020). By providing guidance on effec-

tively navigating these challenges, our objective is to support educators and institutions in responsibly adopting AI while ensuring the protection of students' and stakeholders' rights and interests (Mohammed, 2021). Let's delve into a detailed explanation of each aspect mentioned:

Complex Legal Challenges: The use of AI in education presents various legal complexities due to the novel and rapidly evolving nature of AI technology (Carrillo, 2020). Educational stakeholders, such as schools, universities, and other institutions, need to be aware of these challenges to make informed decisions about AI adoption. The paragraph highlights the complex legal challenges that arise from the use of artificial intelligence (AI) in education (E. M. Alqodsi & Aljahoori, 2023). Here's a detailed explanation of each aspect mentioned:

Use of AI in Education: emphasizing the integration of AI technology into the education sector. AI is a rapidly developing field that involves the creation of intelligent machines capable of performing tasks that typically require human intelligence, such as learning from data, recognizing patterns, and making decisions.

Legal Complexities: When AI is applied in the educational context, it introduces various legal complexities. The term "complexities" refers to the intricate and multifaceted legal issues that may arise as a result of using AI technology in educational settings. These complexities can emerge from different aspects of AI implementation, ranging from data usage to decision-making processes.

Novel and Rapidly Evolving Nature of AI: AI technology is still relatively new and continually evolving. This novelty and rapid pace of change mean that the legal framework surrounding AI in education is constantly evolving as well. This makes it challenging for educational stakeholders, including schools, universities, and institutions, to keep up with the latest legal requirements and best practices (E. Alqodsi, 2023).

Awareness and Informed Decisions: Given the legal complexities and dynamic nature of AI, educational stakeholders must be well-informed and aware of the potential legal challenges associated with AI adoption. This awareness is essential to make educated decisions about whether to integrate AI into their educational programs, curricula, or administrative processes.

Informed Decisions about AI Adoption: The paragraph stresses the significance of informed decision-making regarding AI adoption. Educational stakeholders must carefully evaluate the benefits, risks, and legal implications of incorporating AI into their educational systems. This involves considering factors such as the impact on students, potential changes in data handling and privacy practices, and adherence to relevant laws and regulations (Lee & Yoon, 2021).

In summary, the paragraph underscores the importance of understanding and addressing the legal complexities that arise when implementing AI in education. Educational stakeholders must stay informed about the evolving nature of AI technology and the corresponding legal framework to make well-considered decisions about integrating AI into their educational practices. By doing so, they can navigate potential legal challenges and ensure that AI is implemented responsibly, ethically, and in compliance with applicable laws and regulations.

Data Protection: One significant concern when using AI in education is the protection of data. AI systems often require access to large amounts of data to learn and improve. This data may include sensitive information about students and educators. UAE laws likely require educational institutions to follow strict data protection regulations to safeguard personal information and ensure that AI systems

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are not misused or accessed by unauthorized individuals, The United Arab Emirates (UAE) does not have a comprehensive standalone data protection law. However, data protection is addressed through various laws and regulations that provide safeguards for personal information and data privacy. Here are some of the relevant laws and regulations in the UAE that pertain to data protection:

Federal Law No. (2) of 2019 on the Use of Information and Communication Technology in Health Fields: This law governs the use of information and communication technology (Jadalhaq & Alqodsi, 2018) (ICT) in the health sector (E. M. Alqodsi, 2021b), including the protection of health-related data. It sets out provisions for the collection, storage, and sharing of health data, with an emphasis on maintaining confidentiality and ensuring data security (Kandeel, Abueida, & Kandeel, 2023).

Federal Law No. (9) of 2012 on Regulating the Processing of Personal Data: Though this law does not explicitly address data protection (Borgesius, 2016), it includes provisions relevant to the processing of personal data. It lays down rules (Shandi, 2010) for the lawful processing of personal information, the rights of data subjects, and the obligations of data controllers and processors.

The Dubai International Financial Centre (DIFC) Data Protection Law: The DIFC, a financial free zone in Dubai, has its own data protection law, which is based on international standards. It governs the processing of personal data within the DIFC and aims to protect the privacy and rights of individuals whose data is processed within the jurisdiction (Baker, 2021).

The Abu Dhabi Global Market (ADGM) Data Protection Regulations: Similar to the DIFC, the ADGM, another financial free zone in Abu Dhabi, has its own data protection regulations. These regulations aim to safeguard personal data processed within the ADGM and provide individuals with certain rights and protections concerning their data (Chemlali, Salmi, & Benseddik, 2023).

Sector-Specific Regulations: Depending on the nature of the educational institution and the type of data processed, there may be additional sector-specific regulations that apply. For example, educational institutions operating within free zones like the DIFC or ADGM would need to comply with the respective data protection laws in those zones (Otjacques, Hitzelberger, & Feltz, 2007).

It's important to note that data protection laws in the UAE are continuously evolving, and there have been discussions about introducing a comprehensive federal data protection law. As AI technology becomes more prevalent in various sectors, including education, it is likely that the UAE will further strengthen its data protection regulations to address emerging challenges and protect individuals' privacy rights.

Educational institutions in the UAE using AI in education must be aware of the relevant laws and regulations governing data protection. They should take measures to ensure the secure and lawful handling of sensitive information about students, educators, and other stakeholders. Implementing robust data protection practices will help safeguard personal information and prevent unauthorized access or misuse of data by AI systems or any other parties (Jandigulov et al, 2023).

Student Privacy: Student privacy is a crucial aspect of data protection in education. It centers on safeguarding the personal information and data of students who are enrolled in educational institutions. This data may include sensitive details such as names, addresses, contact information, academic records, health information, and any other information that could identify an individual student (Rubel & Jones, 2016).

Respecting Student Privacy Rights: Educational stakeholders, which may include schools, universities, teachers, administrators, and AI developers, must ensure that they respect the privacy rights of

students. This means taking appropriate measures to protect students' personal information from unauthorized access, use, or disclosure (Pedro, Subosa, Rivas, & Valverde, 2019).

AI and Student Data: The use of AI in education often involves collecting and processing large amounts of student data to tailor educational experiences, personalize learning, and make data-driven decisions. While AI can offer numerous benefits in improving educational outcomes, it also requires careful attention to data privacy to avoid potential risks and violations of students' rights (Rezgui & Marks, 2008).

Appropriate and Responsible Data Usage: Educational stakeholders using AI must ensure that student data is used in a manner that aligns with the purposes for which it was collected (Siyam & Hussain, 2021). This involves using the data solely for educational and academic purposes and refraining from any unauthorized or unrelated uses. Additionally, the data should be processed responsibly (E. M. Alqodsi, 2021a) and securely to prevent breaches or data leaks.

Compliance with Laws and Regulations: UAE laws and regulations likely include provisions related to student privacy and data protection. Educational stakeholders using AI in education must adhere to these laws to protect student privacy rights and avoid any legal consequences for mishandling student data (Badri, Al Nuaimi, Guang, & Al Rashedi, 2017).

Transparency and Consent: To uphold student privacy, educational stakeholders should be transparent about the data collection and processing practices involved in AI-based educational applications. Students and their parents or guardians should be informed about how their data will be used and have the opportunity to provide informed consent.

Data Retention and Deletion: Educational institutions and AI developers must also have policies in place regarding data retention and deletion. Student data should not be retained for longer than necessary and should be securely deleted when it is no longer needed for its original purpose.

In summary, ensuring student privacy in the context of using AI in education is vital for protecting the rights and interests of students. It involves taking appropriate measures to safeguard student data, using it responsibly and transparently (Jadalhaq, Abdulhay, Alqodsi, & El Maknouzi, 2023), and complying with relevant data protection laws and regulations. By prioritizing student privacy, educational stakeholders can build trust with students and their families, create a safe learning environment, and enhance the ethical use of AI in education.

Liability: AI in Educational Decision-Making: The integration of AI in education often involves using AI algorithms to analyze data, make predictions, and assist in decision-making processes. These decisions can range from recommending personalized learning paths for students to automating administrative tasks, such as grading and scheduling (Ali, 2018).

Liability Concerns: When AI is utilized in decision-making that impacts students, educators, or other stakeholders, there is a potential for errors or negative consequences to occur. These errors might include misinterpreting data, biased decision-making, or misclassifying students' abilities or needs. Negative consequences could lead to students receiving inappropriate learning recommendations or facing administrative issues.

Clarifying Responsibility and Accountability: The question of liability arises when errors or negative outcomes occur due to AI involvement in decision-making. It becomes crucial for educational institutions and AI developers to clarify who bears responsibility (Jadalhaq & Alqodsi, 2018) for these outcomes. This includes determining whether the liability lies with the institution implementing

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the AI system, the developers who designed the AI algorithms, or a combination of both(Boelen, Dharamsi, & Gibbs, 2012).

Legal and Ethical Implications: The issue of liability is not only a legal concern but also an ethical one.

Educational stakeholders must ensure that AI is used responsibly and that decisions made by AI systems align with ethical guidelines and principles. This involves being aware of potential biases in AI algorithms and taking steps to mitigate their impact on decision-making.

Protecting Students' Rights: Ensuring clarity regarding liability is essential for protecting the rights of students and other individuals affected by AI-driven decisions. Students have the right to receive fair and unbiased treatment, and educational institutions must safeguard these rights when implementing AI technologies.

Transparency and Explainability: To address liability concerns, AI systems should be designed with transparency and explainability in mind. Educational stakeholders should be able to understand how AI algorithms arrive at their decisions and be able to explain those decisions to students and parents. Transparent AI systems enable better accountability and help identify and rectify any potential issues.

Risk Mitigation: Educational institutions and AI developers can take proactive measures to mitigate liability risks. This includes conducting thorough testing and validation of AI algorithms before deployment, ongoing monitoring of AI system performance, and implementing feedback loops to correct errors and biases.

Insurance and Contracts: Educational institutions and AI developers may also consider liability insurance and contractual agreements to allocate responsibility and protect against potential financial losses due to AI-related issues.

Compliance with Regulations: Compliance with relevant UAE laws and regulations is essential in managing liability concerns. Staying up-to-date with the legal landscape ensures that AI implementation adheres to established standards and requirements.

addressing liability concerns in the context of AI-driven educational decision-making is crucial for ensuring accountability, protecting students' rights, and maintaining ethical and responsible use of AI in education. By understanding and clarifying liability issues, educational stakeholders can take proactive measures to prevent errors, minimize negative consequences, and build trust in the adoption of AI technologies for educational purposes.

Transparency: The transparency of AI systems is essential in the educational context. Users, including students and educators, should be informed about how AI technologies are being used and the criteria used for making decisions(Holmes et al., 2021). Transparency helps build trust and ensures that AI is used ethically and responsibly.

Compliance with UAE Laws and Regulations: The UAE likely has laws and regulations that govern the use of AI in various sectors(E. M. Alqodsi & Gura, 2023), including education. Educational stakeholders must comply with these laws to avoid legal issues and potential penalties. By following the relevant regulations, they can ensure that AI adoption in education is conducted lawfully.

The overall goal of the paragraph is to provide guidance to educators and institutions in the UAE on how to navigate legal challenges and ensure compliance while embracing AI in education. By addressing data protection, student privacy, liability, and transparency, educational stakeholders can integrate

AI responsibly, safeguarding the rights and interests of students and other stakeholders involved in the education process. It shows a commitment to using AI technology ethically and in accordance with UAE laws (Abu El-Haija, 2010), ultimately fostering a positive and responsible AI-driven education environment.

TEACHER RESPONSIBILITIES IN AI-ENABLED CLASSROOMS

In today's rapidly evolving educational landscape, the integration of artificial intelligence (AI) has emerged as a transformative force. AI-enabled classrooms hold the promise of enhancing teaching and learning experiences, but they also bring about unique challenges and responsibilities for educators. As we navigate this exciting intersection of technology and pedagogy, it becomes imperative to understand the vital role that teachers play in AI-powered learning environments, we will first delve into the general responsibilities teachers must embrace in AI-powered education. Subsequently, we will turn our attention to the specific legal and ethical obligations that educators in the United Arab Emirates (UAE) must uphold. This includes compliance with UAE's data protection laws and ensuring that AI integration in classrooms aligns with the nation's ethical and cultural norms.

Compliance With Data Protection Laws in the United Arab Emirates

In the rapidly advancing digital era, the collection, storage, and utilization of personal data have become integral to various aspects of our lives, including education. In the United Arab Emirates (UAE) (Morgan, Warren-Smith, & Kelly, 2020), as in many other nations, the safeguarding of individuals' personal information is not only a fundamental right but also a legal obligation. Teachers, as key participants in the educational process, are entrusted with the responsibility of handling student data with utmost care and in strict adherence to data protection laws. Failure to do so can result in significant legal consequences.

The UAE has enacted comprehensive data protection laws and regulations to ensure the privacy and security of personal information (Thomas & Khoja, 2022). These laws impose specific obligations on educational institutions and their staff, including teachers, to guarantee that the data of students and stakeholders are treated with the highest standards of confidentiality and integrity. In this section, we will delve into the key data protection laws in the UAE that teachers must diligently uphold, understanding the potential legal liabilities associated with non-compliance.

The UAE primarily relied on various laws and regulations that touched on data protection, confidentiality, and information security, including:

- 1: The Personal Data Protection Law, Federal Decree Law No. 45 of 2021 regarding the Protection of Personal Data, constitutes an integrated framework to ensure the confidentiality of information and protect the privacy of individuals in the UAE. It provides a proper governance for data management and protection and defines the rights and duties of all parties concerned (Chemlali et al., 2023).

Provisions of the Law

- The provisions of the law apply to the processing of personal data, whether in full or part through electronic systems, inside or outside the country.

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- The law defines the controls for the processing of personal data and the general obligations of companies that have personal data to secure it and maintain its confidentiality and privacy (Meenagh & Elsayed, 2018). It prohibits the processing of personal data without the consent of its owner, except for some cases in which the processing is necessary to protect a public interest or to carry out any of the legal procedures and rights.
- The law gives the owner of the data the right to request for corrections of inaccurate personal data and to restrict or stop the processing of his personal data.
- It sets out the requirements for the cross-border transfer and sharing of personal data for processing purposes.

The Personal Data Protection Law, the UAE's inaugural federal legislation in this realm, was collaboratively developed in conjunction with prominent private-sector technology companies. This law came into effect on January 2, 2022.

- 2: Data Protection Law, DIFC Law No 5 of 2020- Dubai International Financial Centre (Baker, 2021)
- 3: Protection of health data and information: Federal Law No. 2 of 2019 Concerning the Use of Information and Communication Technology (ICT) in Health Fields regulates the use of information and communication technology (ICT) in the health care sector in the UAE (McGraw & Mandl, 2021), including its free zones.
- 4: Protecting data and privacy online: Law on combatting rumours and cybercrimes, Federal Decree Law No. 34 of 2021 on Combatting Rumours and Cybercrimes provides a comprehensive legal framework to address the concerns relating to the misuse and abuse of online technologies (Chen, 2021). It aims to enhance the level of protection from online crimes committed through the use of information technology, networks and platforms.
- 5: Internet Access Management (IAM) policy: Telecommunications and Digital Government Regulatory Authority (TDRA) implements the Internet Access Management (IAM) policy in the UAE, in coordination with National Media Council and Etisalat and Du, the licensed internet service providers in the UAE. Under this policy, online content that is used for impersonation, fraud and phishing and/or invades privacy can be reported to Etisalat and Du to be taken down (DeBose, 2023).
- 6: Electronic Transactions and Trust Services law: The law regulates the validity of electronic documents and boosts the legal value of digital signature and the level of its security. It provides provisions for eTransactions, the way eDocuments should be stored and saved, and sent and received to be valid. It also sets licensing requirements for trust services providers who are duly licensed to create, validate and preserve eSignatures, eSeals and digital certification (Abdallah & Musah 2023).
- 7: The UAE's Constitution: Article 31 of the UAE's Constitution provides for the freedom of communication by means of post, telegraph or other means of communication and guarantees their confidentiality in accordance with the law.

In the United Arab Emirates, as the realm of education becomes increasingly intertwined with data-driven technology, educators find themselves at a pivotal juncture where they must skillfully navigate the intersection of learning and data protection. The UAE's comprehensive data protection laws and regulations lay down clear guidelines and obligations for teachers and educational institutions to uphold the privacy and security of personal information. Non-compliance with these laws can lead to serious legal consequences.

To succeed in this delicate balancing act, teachers must prioritize both educational excellence and data protection (Darawsheh et al,2023).

How They Can Achieve This Equilibrium?

- 1: Familiarity with UAE Data Protection Laws(Greenleaf, 2022): First and foremost, educators should make a concerted effort to understand the specific data protection laws and regulations applicable in the UAE. Staying informed about legal requirements is essential to ensuring compliance.
- 2: Data Minimization: Collect and store only the data that is essential for educational purposes. Avoid unnecessary data collection(Al-Awadi & Saidani, 2010), and regularly review and delete data that is no longer needed.
- 3: Consent and Transparency: Seek informed consent from students and their parents or guardians when collecting and processing their personal data. Maintain transparency about how the data will be used and who will have access to it.
- 4: Data Security Measures: Implement robust data security measures to protect personal information from unauthorized access or breaches. This includes encryption, access controls, and regular security audits.
- 5: Training and Awareness: Provide training to teachers and staff on data protection principles and best practices. Promote a culture of data protection awareness within the educational institution (Abdallah & Alkaabi,2023).
- 6: Data Privacy Impact Assessments: Conduct assessments to evaluate the potential impact of data processing activities on the privacy and rights of students and stakeholders. Mitigate risks and ensure compliance accordingly.
- 6: Collaboration with IT Departments: Work closely with your institution's IT department or technology partners to ensure that educational technology platforms and systems comply with data protection requirements.
- 7: Legal Counsel: When in doubt or faced with complex data protection issues, seek legal counsel or consult your institution's legal experts for guidance.

By diligently adhering to these principles and maintaining a careful balance between educational objectives and data protection requirements, teachers in the UAE can create a learning environment that not only nurtures academic growth but also respects the privacy and security of student data. This proactive approach not only safeguards against potential legal repercussions but also sets a strong ethical foundation for responsible teaching in the digital age.

Adhering to the Ethical and Cultural Norms Embraced by Educators in the Era of Technology

In the current era of rapid technological advancement, the role of educators extends beyond traditional pedagogical practices. Educators are not only responsible for imparting knowledge but also for upholding and embodying a set of ethical and cultural norms that align with the demands and challenges of this digital age (Abdallah et al,2023; Jandigulov et al.,2023). This entails a commitment to adhering to these norms, ensuring that education remains a responsible and culturally sensitive endeavor in an increasingly technology-driven world(Kezar, Carducci, & Contreras-McGavin, 2006).

Achieving the Alignment of Ethical and Cultural Norms With the Responsibilities of Educators in the Age of Technology Can Be Accomplished Through Several Key Strategies

- 1: **Ethical Leadership:** Teachers should serve as ethical leaders in the classroom, modeling behaviors and attitudes that reflect the values and norms of respect, integrity, and responsibility (Mihelic, Lipicnik, & Tekavcic, 2010). By consistently demonstrating these qualities, educators set a positive example for their students.
- 2: **Cultural Competence:** Understanding and respecting the cultural backgrounds of students is paramount. Teachers should educate themselves about the diverse cultures represented in their classrooms and adapt their teaching approaches to be culturally sensitive and inclusive (Khalil et al., 2023; Tanner & Allen, 2007).
- 3: **Digital Literacy and Citizenship:** Teachers should actively incorporate digital literacy education into their curricula, teaching students how to use technology responsibly and ethically (Badawy & Alkaabi, 2023; Ibrahim et al., 2024). This includes discussions on online etiquette, cyberbullying prevention, and critical thinking in the digital sphere (Öztürk, 2021).
- 4: **Incorporate Diverse Perspectives:** Ensure that the educational materials and resources used in the classroom are culturally diverse and representative of various backgrounds and perspectives (Kumi-Yeboah & Amponsah, 2023). This promotes inclusivity and helps students appreciate different cultures.
- 5: **Open Dialogue:** Create a classroom environment where students feel comfortable discussing ethical and cultural issues related to technology. Encourage open dialogue and critical thinking to explore these topics.
- 6: **Professional Development:** Teachers should engage in ongoing professional development to stay updated on best practices in both education and technology, including ethical considerations. Workshops, courses, and conferences can provide valuable insights (Alkaabi, 2023; Alkaabi et al., 2023; Alkaabi & Almaamari, 2020; Alaktoum & Alkaabi, 2024).
- 7: **Collaboration:** Collaborate with colleagues, parents, and the wider community to address ethical and cultural considerations in education. This can include seeking input from parents of diverse backgrounds and involving the community in school activities.
- 8: **Assessment and Reflection:** Regularly assess the effectiveness of your teaching methods in integrating ethical and cultural norms into the curriculum. Reflect on what works and what can be improved to align with evolving educational and technological landscapes (Alkaabi & Almaamari, 2020).
- 9: **Personal Growth:** Engage in continuous self-reflection and growth as an educator. This includes examining your own biases, values, and perspectives to ensure they align with the ethical and cultural norms you aim to impart (Al-Zoubi et al., 2023).
- 10: **Policy Advocacy:** Advocate for policies and practices within educational institutions and at the policy-making level that promote ethical and culturally sensitive education in the digital age (Musah et al., 2023).

By actively embracing these strategies, educators can fulfill their responsibility of aligning with ethical and cultural norms while navigating the challenges and opportunities presented by the era of technology. In doing so, they contribute to creating a more inclusive, responsible, and culturally sensitive educational environment.

CONCLUSION

In the journey of integrating artificial intelligence (AI) into education, understanding the intricate legal landscape and upholding teacher responsibilities is of paramount importance. This exploration has revealed key insights and recommendations:

RESULTS

Legal Frameworks Exist: Various countries, including the United Arab Emirates, have established legal frameworks to govern AI adoption in education. Compliance with these laws is essential to ensure the responsible use of AI.

Teacher Roles Evolve: Educators play a pivotal role in AI-enabled classrooms. They are not only instructors but also guardians of ethical and cultural norms, responsible for the well-being of students and the protection of their data.

Data Protection Is Critical: Teachers must diligently adhere to data protection laws, such as those governing personal data in the UAE, to safeguard student information. Non-compliance can result in legal liabilities.

Recommendations

- 1: **Legal Awareness:** Teachers should stay informed about the AI and data protection laws applicable in their jurisdiction, seeking legal counsel when needed. Keeping abreast of legal changes is crucial.
- 2: **Ethical Leadership:** Embrace ethical leadership by modeling responsible technology use and cultivating a classroom culture that values respect, integrity, and cultural sensitivity.
- 3: **Cultural Competence:** Promote cultural competence by understanding and celebrating diversity, ensuring that educational materials reflect different perspectives, and fostering inclusivity.
- 4: **Digital Literacy:** Incorporate digital literacy and responsible online behavior into the curriculum, teaching students to use technology ethically and critically.
- 5: **Open Dialogue:** Encourage open dialogues with students about ethical and cultural aspects of technology. Create a safe space for discussions and critical thinking.
- 6: **Professional Development:** Engage in ongoing professional development to stay current on educational technology and ethical considerations, attending relevant workshops and training.
- 7: **Assessment and Reflection:** Continuously assess the effectiveness of integrating ethical and cultural norms into education, reflecting on improvements needed.
- 8: **Policy Advocacy:** Advocate for policies that promote ethical AI adoption in education at institutional and policy-making levels.

As educators and education systems continue to evolve with technology, it is incumbent upon teachers to embrace their multifaceted roles. By navigating the legal landscape with awareness and dedication, educators can ensure that AI adoption in education is not only innovative but also responsible, fostering a harmonious balance between technology and human values. In doing so, they equip students with the skills and ethics necessary for success in an ever-changing world.

REFERENCES

- Abdallah, A., Ismail, O., Abdallah, R. K., & Alkaabi, A. M. (2023). Perceptions of Students About the Use of Webinars in Classrooms: A Case of Abu Dhabi University. [IJICTE]. *International Journal of Information and Communication Technology Education*, 19(1), 1–17. doi:10.4018/IJICTE.322793
- Abdallah, A. K. (2023). Teacher-Led, Student-Focused, and Unleashing the Power of Teacher Empowerment for School Improvement and Success. In A. Abdallah & A. Alkaabi (Eds.), *Restructuring Leadership for School Improvement and Reform* (pp. 1–21). IGI Global., doi:10.4018/978-1-6684-7818-9.ch001
- Abdallah, A. K., & Abdallah, R. K. (2023). Achieving academic excellence: The intersection of teacher development, quality education, and entrepreneurship. In S. Chakravarti (Ed.), *Innovations in Teacher Development, Personalized Learning, and Upskilling the Workforce* (pp. 136–158). IGI Global. doi:10.4018/978-1-6684-5518-0.ch007
- Abdallah, A. K., & Al-Kaabi, A. M. (2023). 5 31). Induction Programs' Effectiveness in Boosting New Teachers' Instruction and Student Achievement: A Critical Review. *International Journal of Learning, Teaching and Educational Research*, 22(5), 493–517.
- Abdallah, A. K., & Alkaabi, A. M. (2023). Role of teachers in reinforcing students cultural and heritage awareness at Abu Dhabi schools to meet global challenge. *Cogent Social Sciences*, 9(1), 1. www.tandfonline.com/doi/full/10.1080/23311886.2023.2194734. doi:10.1080/23311886.2023.2194734
- Abdallah, A. K., AlKaabi, A. M., & Ramadan, R. S. (2023). The critical role of principals in leading effective inclusive schools. In E. Efthymiou (Ed.), *Inclusive Phygital Learning Approaches and Strategies for Students With Special Needs* (pp. 256–281). IGI Global. doi:10.4018/978-1-6684-8504-0.ch012
- Abdallah, A. K., & Farhan, A. F. (2023). Breaking Barriers and Empowering Women Leaders to Drive School Improvement. In A. Abdallah & A. Alkaabi (Eds.), *Restructuring Leadership for School Improvement and Reform* (pp. 399–419). IGI Global. doi:10.4018/978-1-6684-7818-9.ch020
- Abdallah, A. K., & Musah, M. B. (2023). Principal and Teacher Licensing as a Tool to School Improvement. In A. Abdallah & A. Alkaabi (Eds.), *Restructuring Leadership for School Improvement and Reform* (pp. 278–300). IGI Global. doi:10.4018/978-1-6684-7818-9.ch014
- Abu El-Haija, M. I. (2010). Internet Providers' Liability for Illegal Content A Study in French and European E-commerce Law. *UAEU Law Journal*, 2010(42), 1.
- Ahmed, T. R., Januel, B., & Fuenmayor, M. (2021). Digital Transformation Journey of Field Operations at Abu Dhabi Offshore Field in UAE. Paper presented at the *Abu Dhabi International Petroleum Exhibition and Conference*. One Petro. 10.2118/207386-MS
- Al-Awadi, K., & Saidani, M. (2010). Justifying the need for a data security management plan for the UAE. *Information Management & Computer Security*, 18(3), 173–184. doi:10.1108/09685221011064708
- Al-Zoubi, Z., Qablan, A., Issa, H. B., Bataineh, O., & AlKaabi, A. M. (2023). The degree of implementation of total quality management in universities and its relationship to the level of community service from the perspectives of faculty members. *Sustainability (Basel)*, 15(3), 2404. doi:10.3390/su15032404

Ali, Y. S. E. (2018). Civil Liability Claims Arising from Torts in the English Law. *UAEU Law Journal*, 2018(74), 4.

Alkaabi A, Qablan A, Alkatheeri F, Alnaqbi A, Alawlaki M, Alameri L, et al. (2023) Experiences of university teachers with rotational blended learning during the COVID-19 pandemic: A qualitative case study. *PLoS ONE*, 18(10), e0292796. <https://doi.org/10.1371/journal.pone.0292796> doi:10.1371/journal.pone.0292796

Alkaabi A, Qablan A, Alkatheeri F, Alnaqbi A, Alawlaki M, Alameri L, et al. (2023) Experiences of university teachers with rotational blended learning during the COVID-19 pandemic: A qualitative case study. *PLoS ONE*, 18(10), e0292796. <https://doi.org/10.1371/journal.pone.0292796> doi:10.1371/journal.pone.0292796

Alkaabi, A. M. (2021). A qualitative multi-case study of supervision in the principal evaluation process in the United Arab Emirates. *International Journal of Leadership in Education*, 1–28. doi:10.1080/13603124.2021.2000032

Alkaabi, A. M. (2023). Designing Enduring and Impactful Professional Development to Support Teacher Growth. In S. Chakravarti (Ed.), *Innovations in Teacher Development, Personalized Learning, and Upskilling the Workforce* (pp. 1–23). IGI Global. doi:10.4018/978-1-6684-5518-0.ch001

Alkaabi, A. M. (2023). Revitalizing Supervisory Models in Education: Integrating Adult Learning Theories and Stage Theories for Enhanced Teaching and Learning Outcomes. In A. Abdallah & A. Alkaabi (Eds.), *Restructuring Leadership for School Improvement and Reform* (pp. 253–277). IGI Global. doi:10.4018/978-1-6684-7818-9.ch013

Alkaabi, A. M., & Almaamari, S. A. (2020). Supervisory feedback in the principal evaluation process. *International Journal of Evaluation and Research in Education*, 9(3), 503–509. doi:10.11591/ijere.v9i3.20504

Almaktoum, S. B., & Alkaabi, A. M. (2024). *Exploring Teachers' Experiences Within the Teacher Evaluation Process: A Qualitative Multi-Case Study*. Cogent Education. doi:10.1080/2331186X.2023.2287931

Alqodsi, E. (2023). Teacher Civil Liability in the Case of Breaching Educational and Control Obligations. In *Restructuring Leadership for School Improvement and Reform* (pp. 327–338). IGI Global. doi:10.4018/978-1-6684-7818-9.ch016

Alqodsi, E. M. (2021a). Analyzing the Implementation of Usufruct Rights and Obligations in the UAE Civil Transactions Law. *International Journal of Criminal Justice Sciences*, 16(2).

Alqodsi, E. M. (2021b). The right to pre-contractual information in e-commerce consumer contracts: UAE law and comparative perspectives. *J. Legal Ethical & Regul. Issues*, 24, 1.

Alqodsi, E. M., & Aljahoory, S. A. (2023). Legal Protection of the Right to Education for People With Special Needs: Zayed Higher Organization for People of Determination as a Model. In *Inclusive Physical Learning Approaches and Strategies for Students With Special Needs* (pp. 199-213). IGI Global.

Alqodsi, E. M., & Gura, D. (2023). High tech and legal challenges: Artificial intelligence-caused damage regulation. *Cogent Social Sciences*, 9(2), 2270751. doi:10.1080/23311886.2023.2270751

Navigating the Legal Landscape

- Alqodsi, E. M., Jadalhaq, I. M., & El, M. E. H. E. H. (2023). Technology-Enhanced Legal Education: A Study of Its Impact on Student Learning Outcomes in the UAE. In *Innovations in Teacher Development, Personalized Learning, and Upskilling the Workforce* (pp. 64-87): IGI Global. doi:10.4018/978-1-6684-5518-0.ch004
- Ameen, N., Tarhini, A., Shah, M. H., Madichie, N., Paul, J., & Choudrie, J. (2021). Keeping customers' data secure: A cross-cultural study of cybersecurity compliance among the Gen-Mobile workforce. *Computers in Human Behavior, 114*, 106531. doi:10.1016/j.chb.2020.106531
- Badawy, H. R., & Alkaabi, A. M. (2023). From Datafication to School Improvement: The Promise and Perils of Data-Driven Decision Making. In A. Abdallah & A. Alkaabi (Eds.), *Restructuring Leadership for School Improvement and Reform* (pp. 301–325). IGI Global. doi:10.4018/978-1-6684-7818-9.ch015
- Badri, M., Al Nuaimi, A., Guang, Y., & Al Rashedi, A. (2017). School performance, social networking effects, and learning of school children: Evidence of reciprocal relationships in Abu Dhabi. *Telematics and Informatics, 34*(8), 1433–1444. doi:10.1016/j.tele.2017.06.006
- Baker, L. (2021). Dubai International Financial Centre's Updated Data Protection Law, Part 2: Implementing a modern, global law in a UAE financial free zone. *Journal of Data Protection & Privacy, 4*(4), 362–371.
- Boelen, C., Dharamsi, S., & Gibbs, T. (2012). The social accountability of medical schools and its indicators. *Education for Health, 25*(3), 180–194. doi:10.4103/1357-6283.109785 PMID:23823638
- Borgesius, F. J. Z. (2016). Singling out people without knowing their names—Behavioural targeting, pseudonymous data, and the new Data Protection Regulation. *Computer Law & Security Report, 32*(2), 256–271. doi:10.1016/j.clsr.2015.12.013
- Bozkurt, A., Jung, I., Xiao, J., Vladimirschi, V., Schuwer, R., Egorov, G., ... Olcott, D. Jr. (2020). A global outlook to the interruption of education due to COVID-19 pandemic: Navigating in a time of uncertainty and crisis. *Asian Journal of Distance Education, 15*(1), 1–126.
- Brooks, D. C., & McCormack, M. (2020). *Driving Digital Transformation in Higher Education*. EDUCAUSE.
- Carrillo, M. R. (2020). Artificial intelligence: From ethics to law. *Telecommunications Policy, 44*(6), 101937. doi:10.1016/j.telpol.2020.101937
- Chan, C. K. Y. (2023). A comprehensive AI policy education framework for university teaching and learning. *International Journal of Educational Technology in Higher Education, 20*(1), 1–25. doi:10.1186/s41239-023-00408-3
- Chemlali, L., Salmi, A., & Benseddik, L. (2023). A reflection on the UAE's new data protection law: A comparative approach with GDPR. *Journal of Data Protection & Privacy, 6*(1), 24–36.
- Chen, R. (2021). *Mapping Data Governance Legal Frameworks Around the World*.
- DeBose, A. (2023). *Success Strategies for Information Technology Project Leaders*. Walden University.

- Holmes, W., Porayska-Pomsta, K., Holstein, K., Sutherland, E., Baker, T., Shum, S. B., & Bittencourt, I. I. (2021). Ethics of AI in education: Towards a community-wide framework. *International Journal of Artificial Intelligence in Education*, 1–23.
- Ibrahim, H. R., Alghfeli, A. H., Alnuaimi, F. S., Alshamsi, N. N., & Alkaabi, A. M. (2023). STEM and Leadership in the Future: A Path to Innovation, Sustainability, and Entrepreneurship. In A. Abdallah & A. Alkaabi (Eds.), *Restructuring Leadership for School Improvement and Reform* (pp. 420–439). IGI Global., doi:10.4018/978-1-6684-7818-9.ch021
- Jadalhaq, I. M., Abdulhay, I. E., Alqodsi, E. M., & El Maknouzi, M. E. H. (2023). A systematic reviews and meta-analyses of interruption of the statute of limitations for civil claims: A comparative study of Arab legislations. *Heliyon*, 9(6), e16756. doi:10.1016/j.heliyon.2023.e16756 PMID:37292262
- Jadalhaq, I. M., & Alqodsi, E. M. (2018). Civil liability for misuse of online communication through websites: An analytical study of UAE law. *Information & Communications Technology Law*, 27(3), 284–303. doi:10.1080/13600834.2018.1517434
- Jandigulov, A., Abdallah, A. K., Tikhonova, Y., & Gorozhanina, E. (2023). Management and leadership in online learning. *Education and Information Technologies*, 28(10), 13423–13437. Advance online publication. doi:10.1007/s10639-023-11699-4
- Kadaruddin, K. (2023). Empowering Education through Generative AI: Innovative Instructional Strategies for Tomorrow's Learners. *International Journal of Business, Law, and Education*, 4(2), 618–625. doi:10.56442/ijble.v4i2.215
- Kamp, A. (2020). Navigating the landscape of higher engineering education. *Education*, 2. 115ce170ecb198.
- Kandeel, M. E., Abueida, A., & Kandeel, M. M. (2023). Regulations for the Use of Information and Communication Technology in Health Fields: A Case Study of the UAE. In *Artificial Intelligence (AI) and Finance* (pp. 209-218). Springer. doi:10.1007/978-3-031-39158-3_19
- Kezar, A., Carducci, R., & Contreras-McGavin, M. (2006). *Rethinking the "L" word in higher education: The revolution of research on leadership: ASHE higher education report*. John Wiley & Sons.
- Khalil, R. Y., Tairab, H., Qablan, A., Alarabi, K., & Mansour, Y. (2023). STEM-Based Curriculum and Creative Thinking in High School Students. *Education Sciences*, 13(12), 1195. doi:10.3390/educ-sci13121195
- Kumi-Yeboah, A., & Amponsah, S. (2023). An exploratory study of instructors' perceptions on inclusion of culturally responsive pedagogy in online education. *British Journal of Educational Technology*, 54(4), 878–897. doi:10.1111/bjet.13299
- Lee, D., & Yoon, S. N. (2021). Application of artificial intelligence-based technologies in the healthcare industry: Opportunities and challenges. *International Journal of Environmental Research and Public Health*, 18(1), 271. doi:10.3390/ijerph18010271 PMID:33401373
- McGraw, D., & Mandl, K. D. (2021). Privacy protections to encourage use of health-relevant digital data in a learning health system. *NPJ Digital Medicine*, 4(1), 2. doi:10.1038/s41746-020-00362-8 PMID:33398052

Navigating the Legal Landscape

- Meenagh, B., & Elsayed, O. (2018). The GDPR from Saudi Arabia and United Arab Emirates. *Int'l J. Data Protection Officer. Privacy Officer & Privacy Couns.*, 2, 26.
- Mihelic, K. K., Lipicnik, B., & Tekavcic, M. (2010). Ethical leadership. [IJMIS]. *International Journal of Management & Information Systems*, 14(5).
- Mohammed, I. A. (2021). The interaction between artificial intelligence and identity and access management: An empirical study. *International Journal of Creative Research Thoughts (IJCRT)*. ISSN, 2320(2882), 668–671.
- Morgan, G. A., Warren-Smith, C., & Kelly, R. (2020). the United Arab Emirates. *Corporate Investigations*, 2021, 132.
- Musah, M. B., Tahir, L. M., Ali, H. M., Al-Hudawi, S. H. V., Issah, M., Farah, A. M., Abdallah, A. K., & Kamil, N. M. (2023). Testing the validity of academic staff performance predictors and their effects on workforce performance. *International Journal of Evaluation and Research in Education*, 2(12), 941–955. doi:10.11591/ijere.v12i2.24230
- Nguyen, A., Ngo, H. N., Hong, Y., Dang, B., & Nguyen, B.-P. T. (2023). Ethical principles for artificial intelligence in education. *Education and Information Technologies*, 28(4), 4221–4241. doi:10.1007/s10639-022-11316-w PMID:36254344
- Otjacques, B., Hitzelberger, P., & Feltz, F. (2007). Interoperability of e-government information systems: Issues of identification and data sharing. *Journal of Management Information Systems*, 23(4), 29–51. doi:10.2753/MIS0742-1222230403
- Öztürk, G. (2021). Digital citizenship and its teaching: A literature review. *Journal of Educational Technology and Online Learning*, 4(1), 31–45.
- Pedro, F., Subosa, M., Rivas, A., & Valverde, P. (2019). *Artificial intelligence in education: Challenges and opportunities for sustainable development*.
- Qablan, A., Alblooshi, K. M., & Alkaabi, F. A. (2023). Education for Sustainable Development (ESD) and School Leadership. In A. Abdallah & A. Alkaabi (Eds.), *Restructuring Leadership for School Improvement and Reform* (pp. 378–398). IGI Global. doi:10.4018/978-1-6684-7818-9.ch019
- Rezgui, Y., & Marks, A. (2008). Information security awareness in higher education: An exploratory study. *Computers & Security*, 27(7-8), 241–253. doi:10.1016/j.cose.2008.07.008
- Rodrigues, L. S. (2017). Challenges of digital transformation in higher education institutions: A brief discussion. Paper presented at the *Proceedings of 30th IBIMA Conference*.
- Rubel, A., & Jones, K. M. (2016). Student privacy in learning analytics: An information ethics perspective. *The Information Society*, 32(2), 143–159. doi:10.1080/01972243.2016.1130502
- Shandi, Y. (2010). The Consumer in Legislation, Judicature, and Jurisprudence A Comparative Study. *UAEU Law Journal*, 2010(44), 3.

Siyam, N., & Hussain, M. (2021). Cyber-safety policy elements in the era of online learning: A content analysis of policies in the UAE. *TechTrends*, 65(4), 535–547. doi:10.1007/s11528-021-00595-8 PMID:33644780

Solaiman, B. (2020). Addressing Access with Artificial Intelligence: Overcoming the Limitations of Deep Learning to Broaden Remote Care Today. *U. Mem. L. Rev.*, 51, 1103.

Tanner, K., & Allen, D. (2007). Cultural competence in the college biology classroom. *CBE Life Sciences Education*, 6(4), 251–258. doi:10.1187/cbe.07-09-0086 PMID:18056292

Thomas, S., & Khoja, S. (2022). Labour and employment compliance in the United Arab Emirates. *Labour and Employment Compliance in the United Arab Emirates*, 1-96.