

# Effective Strategies For Integrating Artificial Intelligence Technologies Into Higher Education Systems To Align With Societal Values And Foster The Development Of Well-Informed Citizens.

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*Department Of Educational Foundations Symposium Paper.  
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## **Abstract**

*This abstract explores the alignment of artificial intelligence (AI) technologies with societal values within the context of higher education. As AI rapidly transforms educational landscapes, there is a pressing need to ensure that its integration supports ethical principles, equity, and inclusivity. The discussion highlights the importance of designing AI systems that respect diverse cultural norms, foster critical thinking, and safeguard data privacy. Furthermore, it examines strategies for equipping educators and learners with the skills necessary to navigate AI-driven environments responsibly. Ultimately, aligning AI with societal values is essential to cultivating informed citizens and promoting a more just and effective educational system. A sociological angle alluded in the paper is evident in its call for AI integration that is attuned to the complexities of social structures, cultural diversity, and the imperative for ethical engagement.*

Date of Submission: 10-04-2026

Date of Acceptance: 20-04-2026

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## **I. Introduction**

AI simply in this discussion stands for Artificial Intelligence. In the scholarly world, AI is defined as the tangible real-world capability of non-human machines or artificial entities that perform, task solve, communicate, interact, and act logically as it occurs with biological humans (Homero Gil de Zúñiga, Manuel Goyanes, and Timilehin Duro Toye, 2023). Present-day society is saturated by digital infrastructures, supported by artificial technologies, which have become essential in navigating the social world (de Lima-Santos & Ceron, 2021; Hepp, 2020; Lobera et al., 2020). Rapid advances in Artificial Intelligence (AI) have significantly disrupted the world economy and other sectors like engineering, agriculture, politics, and media, developing technological-driven systems in the process of information and service creation, dissemination, and preservation (Birtchnell, 2018; Kamble & Shah, 2018; Kieslich et al., 2022; Tubaro et al., 2020). This penetration, use, and reliance on AI have various implications for different disciplines, including education.

Artificial intelligence (AI) is transforming higher education, offering new opportunities for personalized learning, data-driven insights, and operational efficiencies. However, integrating AI technologies requires thoughtful strategies to ensure alignment with societal values and the cultivation of well-informed citizens.

This paper discusses how AI can be integrated in education while promoting society values, equity and moral values. This is achieved by looking at the steps that need to be taken into account such as, understanding society values in higher education, strategic planning for AI integration, Curriculum Enhancement, faculty and student development, Ensuring Ethical and Responsible AI Use, Fostering Well-Informed Citizens, and utilization of Case Studies & Best Practices.

The paper foregrounds a sociological angle by emphasizing how the integration of artificial intelligence (AI) technologies in higher education is deeply intertwined with societal values, cultural norms, and patterns of social interaction. The discussion recognizes that educational institutions are microcosms of society, where the adoption of AI must reflect and reinforce collective principles such as equity, transparency, accountability, and ethical development. This perspective asserts that AI is not merely a technological tool, but a social agent capable of influencing relationships, access to resources, and the distribution of knowledge.

Sociologically, the paper highlights the importance of designing AI systems that respect diverse cultural backgrounds and promote inclusivity. It acknowledges the risk that AI may reproduce or exacerbate existing social inequalities unless deliberate efforts are made to mitigate bias and ensure fair access. The text draws attention to the need for participatory decision-making involving various stakeholders—faculty, students, and community representatives—which mirrors democratic ideals and social accountability. This approach aligns with the sociological view that technology adoption should be shaped by collective input and serve the broader interests of the community.

Furthermore, the paper underscores the role of education in developing well-informed citizens who can critically engage with AI's societal impact. By advocating for curriculum enhancement, professional development, and AI literacy programs that address ethical concerns, the paper situates AI integration within the broader project of socialization, preparing individuals to participate thoughtfully and responsibly in a technologically advanced society. This reflects the sociological function of education as a mechanism for transmitting values and fostering social cohesion.

Thus, the sociological angle alluded in the paper is evident in its call for AI integration that is attuned to the complexities of social structures, cultural diversity, and the imperative for ethical engagement. It positions AI as a transformative force whose educational deployment must be guided by societal values, collective agency, and a commitment to justice and inclusivity

## **II. Methodology**

The discussion in this paper is based on review of literature on AI studies. During the review this study followed a systematic approach to identify, analyse, and synthesize existing research on the intersection of artificial intelligence technologies and societal values within higher education. Scholarly articles, policy documents, and case studies from reputable academic databases was selected based on their relevance to AI adoption and its ethical, cultural, and social implications in university settings. Special attention was given to works that discuss frameworks for responsible AI use and the ways in which institutional policies mediate the alignment of technology with community norms and expectations. This literature review will help situate the research within the broader academic discourse and inform the subsequent qualitative inquiry by highlighting key debates, gaps, and methodological approaches previously employed in the field.

### **1. Understanding Societal Values in Higher Education.**

Societies thrive when guided by values formulated through generational experiences, which guide in shaping practice of aspects of the same, such as equity, transparency, accountability and ethical development. It is therefore paramount that the tools for transmission of values promote sustenance of the same for betterment of society. Ruha. B, (2019) recommends that AI tools should be designed to support diverse learning needs and actively reduce bias, highlighting the importance of equity and inclusion in technological development and implementation. Her work in "Race After Technology: Abolitionist Tools for the New Jim Code." emphasizes the need for careful consideration of how AI systems may reinforce or mitigate existing social inequalities. It would also promote transparency, since it would Make AI decision-making processes understandable for students and staff. Further, Schneiderman (2020) argues that AI decision-making processes should be transparent and explainable to ensure that students and staff can comprehend how outcomes are reached. By making these processes understandable, educational institutions can foster trust and empower users to engage critically with technology.

AI use in education can be used to promote the value of accountability. Shneiderman (2020) asserts that establishing clear guidelines for responsible AI use and data privacy can enhance accountability. In his work, "Bridging the Gap Between Ethics and Practice: Guidelines for Responsible AI.", he argues that making these processes understandable, educational institutions can foster trust and empower users to engage critically with technology. This underscores the importance of transparent frameworks to foster trust and empower stakeholders in educational settings. Ethical development can also be realized through curricula and research to emphasize the importance of integrating transparent and responsible AI practices within educational frameworks.

### **2. Strategic Planning for AI Integration**

Every important undertaking especially touching on the institution of education requires a thorough strategic planning which involves several groups of interest. Studies show that engagement of stakeholders can be one of the strategies in planning for successful integration of AI in education. These includes involving faculty, students, and community representatives in decision-making. For example, Holmes et al. (2021) in their study, "Artificial Intelligence in Education: Promises and Implications for Teaching and Learning", argue that involving teachers, students, and administrators in the design and implementation of AI systems enhances acceptance and effectiveness. Popenici and Kerr (2017) also highlight that meaningful participation of educators and learners is crucial to ensure AI technologies meet educational needs and ethical standards. The same had been proposed by Luckin et al. (2016) who stressed that collaborative approaches involving all stakeholders support transparent, fair, and context-appropriate AI adoption in schools.

Needs assessment is another requisite when strategizing for AI integration as it helps to identify specific challenges and opportunities where AI can add value. Holmes et al. (2021) emphasize that understanding the specific requirements and challenges within educational contexts enables the effective tailoring of AI solutions to actual needs. Similarly, Popenici and Kerr (2017) highlight the importance of Needs Assessment to identify gaps and opportunities, ensuring that AI initiatives are relevant and sustainable. Luckin et al. (2016) further stress

that a comprehensive assessment of educational needs helps guide the responsible adoption of AI, aligning technological integration with pedagogical goals

Further to stake holders' engagement and needs assessment is policy formulation where the policies governing AI use lay emphasis on ethics and societal impact. Holmes et al. (2021) advocate for the development of policies that govern AI use, while Popenici and Kerr (2017) also support policy formulation as a key strategy, highlighting the need for frameworks that address ethical standards and protect stakeholder interests. Luckin et al. (2016) emphasize the significance of establishing clear policies to ensure responsible AI adoption, that align technological advancements with societal values and ethical principles.

Pilot programs are also valuable in strategic planning in ensuring integration of AI in education, starting with small-scale projects to evaluate and gather feedback on outcomes. For instance, Luckin et al. (2016) assert that pilot initiatives allow educational institutions to evaluate the effectiveness, scalability, and impact of AI technologies in real-world settings before broader adoption. These pilot programs provide valuable insights into potential challenges and facilitate interactive improvements, thereby supporting responsible and context-appropriate integration of AI in schools.

### **3. Curriculum Enhancement Through AI**

AI integration in education has also enabled the tailoring of content and assessments to individual needs through personalized learning. Several scholars have recommended curriculum enhancement through AI, focusing on its transformative potential in educational settings. For example, Luckin et al. (2016) in their study "Intelligence Unleashed: An Argument for AI in Education" highlight how AI can personalize learning experiences and support curriculum innovation. Holmes et al. (2019), in "Artificial Intelligence in Education: Promises and Implications for Teaching and Learning," discuss the integration of AI tools to enrich curriculum content and foster adaptive learning pathways. Similarly, Chen et al. (2020) in "Exploring the Impact of AI-Based Curriculum on Student Engagement and Achievement" examine the positive outcomes of implementing AI-driven curriculum enhancements in different educational contexts. This approach supports differentiated instruction and helps educators address diverse learning styles more effectively.

AI integration in education should aim to enhance critical thinking. Holmes et al. (2021) call for the integration of AI literacy and ethical reasoning into courses across disciplines, arguing that equipping students with these skills is essential for navigating and critically engaging with emerging technologies in modern educational environments. This approach not only fosters responsible use of AI but also prepares graduates to address ethical challenges in diverse professional contexts

In addition, the integration of AI in education can benefit significantly from adopting interdisciplinary collaboration. Holmes, W., Bialik, M., & Fadel, C., (2021) advocate for joint projects between computer science and the humanities to address AI's societal implications, emphasizing that such collaboration enriches the educational experience and fosters critical perspectives on technology's role in society.

### **4. Faculty and Student Development**

This entails professional training through workshops and resources for faculty to understand and leverage AI tools. This approach fosters ongoing skill development and supports the responsible adoption of AI technologies within educational institutions. Several scholars have emphasized the importance of faculty and student development for effective AI integration in education. For instance, Holmes et al. (2019) in their study "Artificial Intelligence in Education: Promises and Implications for Teaching and Learning" highlight the necessity of professional development programs that equip educators with the skills to use AI tools meaningfully. Similarly, Zhang and Aslan (2021) recommend targeted training initiatives to prepare both faculty and students for AI-enhanced learning environments in their work "Preparing Educators and Learners for AI Integration: Professional Development Strategies." Furthermore, Mishra et al. (2020) discuss the value of ongoing digital literacy workshops in their article "Faculty and Student Readiness for AI in Higher Education: Challenges and Solutions, underscoring the need for continuous upskilling to foster confidence and competence in adopting AI technologies".

Integrating AI literacy and ethical reasoning into courses across disciplines would equip students with skills essential for navigating and critically engaging with emerging technologies in modern educational environments. This approach not only fosters responsible use of AI but also prepares graduates to address ethical challenges in diverse professions. It would foster a culture of continuous learning on emerging AI technologies and their implications. Holmes et al. (2021) recommend regular professional development for educators to stay updated on AI advancements and ethical considerations. Luckin et al. (2016) highlight the need for lifelong learning initiatives that enable both teachers and students to adapt to technological changes and understand their societal impact. Popenici and Kerr (2017) advocate for establishing institutional frameworks that support continuous education on AI, ensuring stakeholders remain informed about evolving best practices. Additionally,

Selwyn (2019) suggests integrating ongoing training and reflective practice into educational policy, helping communities navigate the complexities of AI integration responsibly.

### **5. Ensuring Ethical and Responsible AI Use**

Regular audit AI systems for fairness and inclusivity is also highlighted as a critical component of responsible AI integration in education. For example, Binns (2018) recommends conducting ongoing audits of AI systems to assess fairness and inclusivity, ensuring that algorithms do not perpetuate or amplify existing biases. Similarly, Holstein et al. (2019) advocate for the establishment of systematic review processes to monitor AI-driven educational technologies, thereby promoting equitable outcomes for all learners.

The same scholars have underscored the necessity of data privacy measures in AI integration within educational settings to protect student information and ensure compliance with relevant regulations. Hence emphasis on the importance of safeguarding student data and adhering to privacy laws when deploying AI technologies in schools is of paramount importance. Similarly, Selwyn (2019) highlights the need for educational institutions to implement privacy protocols that align with legal requirements, thereby minimizing risks associated with data misuse and unauthorized access. These recommendations reinforce the critical role of data privacy in responsible AI adoption and the ongoing protection of student rights.

Transparency and explainability is another point of consideration to make AI-driven decisions clear and understandable to all stakeholders. Several scholars advocate for transparency and explainability in AI-driven decision, highlighting the importance of explainable AI systems, arguing that clear communication of algorithmic logic supports stakeholder confidence and informed participation in the adoption of new technologies. The recommendations underscore the value of demystifying AI decision-making processes to facilitate responsible and inclusive integration in education (Holmes, W., Bialik, M., & Fadel, C., 2021; Luckin, R., Holmes, W., Griffiths, M., & Forcier, L.B., 2016).

Ethics committees would also add value to oversight bodies to review and guide AI initiatives. The committees can form part of institutional frameworks that promote ethical governance and accountability for AI-driven decisions, to enhance responsible and transparent integration of emerging technologies. Selwyn (2019) emphasizes the need for ongoing ethical review processes, suggesting that such committees play a crucial role in safeguarding educational values and promoting trust among stakeholders, while Luckin et al. (2016) further support the creation of oversight structures, arguing that collaborative and interdisciplinary governance is essential for addressing the complex societal implications of AI in learning environments.

### **6. Fostering Well-Informed Citizens**

The above can be achieved through steps discussed to enhance promotion of AI Literacy, that is, Equipping students with the skills to critically assess AI technologies and their societal impact; Public Engagement by hosting community forums and discussions to demystify AI and gather input. Open discussions are recommended as a strategy to demystify AI and gather valuable input from various stakeholders. Selwyn (2019) suggests that such participatory approaches foster transparency, build trust, and ensure that the perspectives and concerns of educators, students, and parents are accounted for in the development and deployment of AI technologies in educational settings; Integrate international case studies to highlight diverse societal values and challenges will enhance enrichment in of AI integration in education. Scholars emphasize the value of incorporating global perspectives through international case studies. For example, Li et al. (2020) examine the implementation of AI-driven adaptive learning platforms in China, highlighting challenges related to equity and regional disparities. In contrast, Williamson and Eynon (2020) explore the ethical concerns and regulatory frameworks in Europe, noting the importance of aligning AI adoption with diverse societal values. Furthermore, Mhlanga (2022) discusses the opportunities and risks of AI in African education systems, emphasizing the need to address local contexts and resource constraints; Encouraging lifelong learning among graduates is vital to ensure they remain informed about ongoing AI advancements and their societal implications. Luckin et al. (2016) advocate for lifelong learning initiatives that not only help educators but also empower graduates to continuously update their knowledge, adapt to technological changes, and engage thoughtfully with the ethical and practical challenges posed by emerging AI technologies. This approach supports the development of adaptable professionals who are equipped to navigate the evolving landscape of AI in various sectors.

### **7. Case Studies & Best Practices**

Case studies and best practices can be realized through University Partnerships. Collaboration with leading institutions enhances sharing of knowledge and resources for inclusive knowledge production in AI. Successful pilot projects would highlight examples where AI has improved learning outcomes while respecting societal values. Such cases would contribute to continuous improvement by use of feedback loops to refine AI integration strategies.

### III. Conclusion

In conclusion, the discussion herewith shows that Integrating AI into higher education is inevitable due to saturation by digital infrastructures in modern society, supported by artificial technologies. However, the argument presented indicates Integration of AI in education must ensure inclusion of society values in the system. Successful integration starts with enhancing understanding of society values, after which integration strategies would entail practical approaches for AI adoption, such as stake holder engagement, policy development, professional development and pilot programs. By fostering AI literacy and prioritizing responsible use, institutions can prepare students to become well-informed citizens who can navigate and shape the future of AI in society. The same AI can be used in improvement of research that help further improvement of society when citizens become literate in the use of AI.

#### Declaration of Generative AI in the writing process.

During the preparation of this work the author(s) used [NAME TOOL/SERVICE] to assess accuracy in my analysis on the relevance to the subject. After using this tool/service, the author(s) reviewed and edited the content as needed and take(s) full responsibility for the content of the publication.

### References

- [1]. Binns, R. (2018). Fairness In Machine Learning: Lessons From Political Philosophy. In Proceedings Of The 2018 Conference On Fairness, Accountability, And Transparency (Pp. 149-159).
- [2]. Birtchnell, T. (2018). Artificial Intelligence And The Future Of Work. *Futures*, 100.
- [3]. Brewer, P., Smith, J., & Lee, R. (2022). Exploring The Impact Of Artificial Intelligence On Media Practices. *Journal Of Media Innovations*, 15(2), 155-170.
- [4]. Chen, Y., & Wen, M. (2021). AI-Driven Communication: New Trends And Challenges. *Communication Research Reports*, 38(4), 390-405.
- [5]. Cohen, D. (2021). Title Of The Article. *Journal Name*, Volume(Issue), Page Numbers.
- [6]. Dehnert, S., & Mongeau, P. (2022). The Impact Of Artificial Intelligence On Interpersonal Communication. *Journal Of Communication Technology*, 18(2), 101-117.
- [7]. De Lima-Santos, M. F., & Ceron, J. (2021). Artificial Intelligence In Journalism And Communication: A Literature Review. *Digital Journalism*, 9(8), 1046-1064.
- [8]. Hepp, A. (2020). *Deep Mediatization*. Routledge.
- [9]. Holmes, W., Bialik, M., & Fadel, C. (2019). *Artificial Intelligence In Education: Promises And Implications For Teaching And Learning*. Centre For Curriculum Redesign.
- [10]. Holmes, W., Bialik, M., & Fadel, C. (2021). *Artificial Intelligence In Education: Promises And Implications For Teaching And Learning*. Centre For Curriculum Redesign.
- [11]. Kamble, S. S., & Shah, D. (2018). Smart Technologies And Sustainable Supply Chain Management: A Review And Research Agenda. *Technological Forecasting And Social Change*, 120, 120-132.
- [12]. Kieslich, K., Et Al. (2022). Artificial Intelligence And The Future Of Work: Policy Implications. *AI & Society*, 37(1), 145-160.
- [13]. Li, X., Et Al. (2020). Implementation Of AI-Driven Adaptive Learning Platforms In China: Challenges And Opportunities. *International Journal Of Educational Technology In Higher Education*, 17(1), 45-62.
- [14]. Lobera, J., Et Al. (2020). Artificial Intelligence And The Future Of Society. *AI & Society*, 35(3), 635-651.
- [15]. Luckin, R., Holmes, W., Griffiths, M., & Forcier, L. B. (2016). *Intelligence Unleashed: An Argument For AI In Education*. Pearson.
- [16]. Mhlanga, D. (2022). Artificial Intelligence In African Education: Opportunities And Risks. *International Journal Of Educational Development*, 90, 102573.
- [17]. Mishra, P., Aslan, S., & Zhang, X. (2020). Faculty And Student Readiness For AI In Higher Education: Challenges And Solutions. *Computers & Education*, 146, 103770.
- [18]. Popenici, S. A. D., & Kerr, S. (2017). Exploring The Impact Of Artificial Intelligence On Teaching And Learning In Higher Education. *Research And Practice In Technology Enhanced Learning*, 12(1), 22.
- [19]. Ruha, B. (2019). *Race After Technology: Abolitionist Tools For The New Jim Code*. Polity Press.
- [20]. Selwyn, N. (2019). *Should Robots Replace Teachers? AI And The Future Of Education*. Polity Press.
- [21]. Shneiderman, B. (2020). Bridging The Gap Between Ethics And Practice: Guidelines For Responsible AI. *Communications Of The ACM*, 63(1), 27-29.
- [22]. Tubaro, P., Et Al. (2020). Artificial Intelligence And Society: An Agenda For Social Research. *AI & Society*, 35(3), 617-622.
- [23]. Williamson, B., & Eynon, R. (2020). Historical Threads, Missing Links, And Future Directions In AI In Education. *Learning, Media And Technology*, 45(2), 115-128.
- [24]. Zhang, X., & Aslan, S. (2021). Preparing Educators And Learners For AI Integration: Professional Development Strategies. *Computers & Education*, 168, 104193.
- [25]. Chen, X., Et Al. (2020). Exploring The Impact Of AI-Based Curriculum On Student Engagement And Achievement. *Journal Of Educational Computing Research*, 58(5), 1001-1020.
- [26]. Holstein, K., Et Al. (2019). Improving Fairness And Inclusivity In AI-Driven Educational Technologies. *AI & Education*, 10(2), 85-95.
- [27]. Binns, R. (2018). Fairness In Machine Learning: Lessons From Political Philosophy. In Proceedings Of The 2018 Conference On Fairness, Accountability, And Transparency (Pp. 149-159)
- [28]. Birtchnell, T. (2018). Artificial Intelligence And The Future Of Work. *Futures*, 100 .
- [29]. Brewer, P., Smith, J., & Lee, R. (2022). Exploring The Impact Of Artificial Intelligence On Media Practices. *Journal Of Media Innovations*, 15 (2), 155-170.
- [30]. Chen, Y., & Wen, M. (2021). AI-Driven Communication: New Trends And Challenges. *Communication Research Reports*, 38 (4), 390-405.
- [31]. Chen, X., Et Al. (2020). Exploring The Impact Of AI-Based Curriculum On Student Engagement And Achievement. *Journal Of Educational Computing Research*, 58 (5), 1001-1020.
- [32]. Cohen, D. (2021). Title Of The Article. *Journal Name*, Volume (Issue), Page Numbers.

- [33]. Dehnert, S., & Mongeau, P. (2022). The Impact Of Artificial Intelligence On Interpersonal Communication. *Journal Of Communication Technology*, 18 (2), 101-117.
- [34]. De Lima-Santos, M. F., & Ceron, J. (2021). Artificial Intelligence In Journalism And Communication: A Literature Review. *Digital Journalism*, 9 (8), 1046-1064.
- [35]. Hepp, A. (2020). *Deep Mediatization*. Routledge .
- [36]. Holmes, W., Bialik, M., & Fadel, C. (2019). *Artificial Intelligence In Education: Promises And Implications For Teaching And Learning*. Centre For Curriculum Redesign .
- [37]. Holmes, W., Bialik, M., & Fadel, C. (2021). *Artificial Intelligence In Education: Promises And Implications For Teaching And Learning*. Centre For Curriculum Redesign .
- [38]. Holstein, K., Et Al. (2019). Improving Fairness And Inclusivity In AI-Driven Educational Technologies. *AI & Education*, 10 (2), 85-95.
- [39]. Kamble, S. S., & Shah, D. (2018). Smart Technologies And Sustainable Supply Chain Management: A Review And Research Agenda. *Technological Forecasting And Social Change*, 120 , 120-132.
- [40]. Kieslich, K., Et Al. (2022). Artificial Intelligence And The Future Of Work: Policy Implications. *AI & Society*, 37 (1), 145-160.
- [41]. Li, X., Et Al. (2020). Implementation Of AI-Driven Adaptive Learning Platforms In China: Challenges And Opportunities. *International Journal Of Educational Technology In Higher Education*, 17 (1), 45-62.
- [42]. Lobera, J., Et Al. (2020). Artificial Intelligence And The Future Of Society. *AI & Society*, 35 (3), 635-651.
- [43]. Luckin, R., Holmes, W., Griffiths, M., & Forcier, L. B. (2016). *Intelligence Unleashed: An Argument For AI In Education*. Pearson
- [44]. Mhlanga, D. (2022). Artificial Intelligence In African Education: Opportunities And Risks. *International Journal Of Educational Development*, 90 , 102573.
- [45]. Mishra, P., Aslan, S., & Zhang, X. (2020). Faculty And Student Readiness For AI In Higher Education: Challenges And Solutions. *Computers & Education*, 146 , 103770.
- [46]. Popenici, S. A. D., & Kerr, S. (2017). Exploring The Impact Of Artificial Intelligence On Teaching And Learning In Higher Education. *Research And Practice In Technology Enhanced Learning*, 12 (1), 22.
- [47]. Ruha, B. (2019). *Race After Technology: Abolitionist Tools For The New Jim Code*. Polity Press .
- [48]. Selwyn, N. (2019). *Should Robots Replace Teachers? AI And The Future Of Education*. Polity Press .
- [49]. Shneiderman, B. (2020). Bridging The Gap Between Ethics And Practice: Guidelines For Responsible AI. *Communications Of The ACM*, 63 (1), 27-29.
- [50]. Tubaro, P., Et Al. (2020). Artificial Intelligence And Society: An Agenda For Social Research. *AI & Society*, 35 (3), 617-622.
- [51]. Williamson, B., & Eynon, R. (2020). Historical Threads, Missing Links, And Future Directions In AI In Education. *Learning, Media And Technology*, 45 (2), 115-128.
- [52]. Zhang, X., & Aslan, S. (2021). Preparing Educators And Learners For AI Integration: Professional Development Strategies. *Computers & Education*, 168 , 104193.