

FOSTERING DIGITAL ETHICS: THE ROLE OF CHARACTER BUILDING IN THE ERA OF AI AND ISLAMIC FINANCE

Mohammad Fathullah Bin Mohammad Rodzi^{1,a} and Fadhilah Abdullah Asuhaimi^{1,b*}

¹Department of Finance, Kulliyah of Economics & Management Sciences (KENMS), International Islamic University Malaysia, Gombak, Selangor, Malaysia

^afathullah.rodzi@student.iium.edu.my

^bfadhilahasuhaimi@iium.edu.my

*Corresponding Author: fadhilahasuhaimi@iium.edu.my

Abstract: Background: The rapid integration of Artificial Intelligence (AI) and digital technologies is fundamentally reshaping the landscape of Islamic accounting, banking, and finance. While AI offers unprecedented opportunities for operational efficiency and sustainable growth, it simultaneously introduces complex ethical, transparency, and governance challenges.

Problem Statement: However, there is a critical gap in addressing the human element: the foundational role of character building and internal moral governance among the professionals utilizing these technologies.

Objective: This study aims to explore the intersection of AI integration, character building, and governance within the Islamic financial sector, proposing that true sustainability requires a synthesis of advanced technology and deeply rooted ethical values.

Methodology: A comprehensive literature review was conducted, synthesizing contemporary research across AI in finance, corporate governance, digital ethics, and Islamic moral frameworks (such as Maqasid al-Shariah).

Findings: The review reveals that sustainable AI governance in Islamic finance cannot rely solely on external compliance or algorithmic auditing. It requires robust internal character building rooted in core Islamic principles like Amanah (trustworthiness), Adalah (justice), and Ihsan (excellence). The literature suggests that cultivating digital ethics and moral resilience is the most effective safeguard against AI-driven risks, such as algorithmic bias, data privacy breaches, and unethical financial modeling.

Conclusion: To achieve a truly "future-ready" Islamic financial ecosystem, institutions and educational bodies must prioritize human-centric governance. We propose a conceptual framework where character building is integrated as a mandatory foundation in financial training, ensuring that AI adoption aligns with both technological advancement and sustainable, ethical Islamic governance.

Keywords: Artificial Intelligence, Character Building, Digital Ethics, Islamic Finance, Maqasid al-Shariah

1. Introduction

The advent of Industry 5.0 marks a strategic pivot where human character, rather than mere technical dexterity, serves as the primary defense against algorithmic risk. As AI induces a "change-inducing crisis" in education and professional practice (Ballantine et al., 2024), a

human-centric pedagogical ethos is required to prioritize interpersonal skills as the foundation of professional character (Posillico et al., 2026). This evolution occurs within a fragmented global context where multicultural sensitivity often dictates the success of character education (Lu, 2025).

Students today must navigate "cosmopolitan nationalism," balancing global ethical standards with local theological identities (Ma & Wright, 2022). In this landscape, the "21st-century corporate skills" often lauded by industry are being superseded by a renewed valuation of "grit" and prosocial behaviors which are qualities global youth identify as the true hallmarks of "good work" (Clark et al., 2025). Central to this transformation is the rejection of static morality in favor of a dynamic approach: "Ethics in Motion" reframes ethics education from a static module into a continuous, reflective practice of 'moral becoming,' preventing the desensitization that often accompanies technical automation (Ekasari et al., 2026). Understanding these challenges requires a rigorous and transparent methodological approach to synthesize the diverse voices within contemporary scholarship and Islamic thought.

2. Methodology

This study employs a qualitative literature review methodology, utilizing a thematic synthesis approach to explore the intersection of Artificial Intelligence (AI), character building and Islamic finance. To establish a rigorous academic foundation, a comprehensive search was conducted across premier academic databases, specifically Emerald Insight, Science Direct and Springer Nature Link. The search process was guided by targeted keywords, including "Artificial Intelligence", "digital ethics", "character building", "Islamic finance", "moral governance" and "Maqasid al-Shariah". The inclusion criteria specifically focused on peer-reviewed articles that address the ethical implications of digital technology in the financial sector, maintaining a specialized lens on Islamic financial principles and educational development.

Following established scoping review standards, this research initially identified and analyzed a corpus of 50 peer-reviewed articles published between 2021 and 2026, which are detailed in the accompanying references. The analysis phase involved a critical reflection on these 50 sources, where findings were iteratively categorized into four core themes. The four core themes are "The Technical Frontier: AI, Accounting and Sustainability", "Governance Beyond Compliance: The Role of Organizational Character", "The Pedagogy of Virtue: Cultivating the Digital Khalifah" and "Islamic Moral Frameworks and Digital Moderation". While all 50 articles were utilized to trace recurring conceptual linkages and trace the "Ethics in Motion" framework, the final integrated text prioritizes the most representative sources to maintain analytical depth within the research's structural requirements.

3. Literature Review and Thematic Synthesis

The literature review represents an analytical reconstruction of the current state of digital-moral integration, focusing on the systemic tensions between technology and virtue.

3.1 The Technical Frontier: AI, Accounting, and Sustainability

The accounting profession is currently undergoing a radical "re-invention," driven by the need to integrate sustainability and business ethics into core curricula to close the gap between

academic rankings and actual social outcomes (Nanjundaswamy et al., 2024; Filho et al., 2026). However, the "Black Box" of AI creates "unknown unknowns" (Baker & Hawn, 2022). In Islamic finance, this opacity constitutes systemic *Gharar* (excessive uncertainty). If the process of wealth generation cannot be audited for Shariah compliance due to algorithmic veils, the very sanctity of that wealth is compromised, directly threatening *Hifz al-Mal* (Preservation of Wealth). Furthermore, the Generative AI age has placed academic and professional integrity "under fire," risking a future where AI becomes a "well-trained accomplice to deception" rather than a tool for prosperity (Al-Hajaya, 2025; Bond et al., 2024).

3.2 Governance Beyond Compliance: The Role of Organizational Character

High-level AI principles often remain "toothless" without the mid-level technical capabilities required for bias remediation (Akbarighatar, 2025). Effective governance in "Community 5.0" requires a shift from passive regulatory checklists to adaptive digital leadership and a robust data-driven decision-making culture (Anwar et al., 2026; Alkhwalid et al., 2025). While digital trust is the primary driver for the adoption of digital finance, it is not an inherent feature of the technology; it is contingent upon the individual digital literacy and moral readiness of the user (AbdulKareem & Oladimeji, 2024).

3.3 The Pedagogy of Virtue: Cultivating the Digital Khalifah

Reclaiming human agency requires the cultivation of the Digital Khalifah—a professional who acts as an active moral steward rather than a passive recipient of algorithmic outputs. Utilizing "Open Pedagogy," institutions must reposition learners as moral agents (Dang et al., 2026). Research confirms that the "armor" of the Khalifah is forged in community, with peers and the co-curriculum acting as the primary drivers of moral growth (Glanzer & Cockle, 2023). By centering curricula on human dignity, we provide the spiritual resilience necessary to resist the ethical erosion typical of digital environments (Pacheco et al., 2024; Pariyanti et al., 2025).

3.4 Islamic Moral Frameworks and Digital Moderation

The integration of Islamic values provides the ultimate shield against digital risk. *Amanah* (trust), *Adalah* (justice), and *Ihsan* (excellence) framework ensures that data is treated as a sacred trust and algorithms are audited for social equity. Furthermore, the principle of *Wasathiyah* (moderation) promotes the development of "justly balanced" digital citizens, acting as a vital counter-measure against digital radicalization (Nurhayati et al., 2025). To combat the "moral fatigue" inherent in high-pressure digital sectors, we must leverage religious social capital to sustain continuous character development (Hartanto et al., 2025; Junaidi et al., 2025).

4. Discussion: Synthesizing the "Ethics in Motion" Framework

Moving from theory to operational character is a strategic necessity for the Ummah. The Digital Khalifah must navigate Education 5.0 where neurodivergent learners often face a high "Affective Load" due to rigid, compliance-based digital designs (Hardey & Pimblett, 2026). Addressing this emotional exhaustion is not merely a pedagogical concern but a matter of *Adalah* (justice) in digital design. Failure to address this, combined with moral fatigue

(Hartanto et al., 2025), leads to AI dependence, where decision-making autonomy is surrendered to automation (Le et al., 2026). To counter these systemic risks, "virtue literacy" which is the ability to reason through ethical dilemmas (Contreras & Garcia, 2025) and the influence of "moral exemplars" (Mendonça et al., 2024) act as primary countermeasures.

The proposed "Ethics in Motion" framework addresses these challenges through five integrated pillars that reposition the professional as a proactive steward of technology. First, the framework prioritizes Understandable Models, ensuring technical transparency to eliminate Gharar (excessive uncertainty) and uphold the core objectives of Maqasid al-Shariah. Second, it mandates active Bias Remediation, where algorithms are rigorously audited to ensure that financial outcomes reflect the principle of Adalah. Third, it fosters Responsiveness by developing institutional agility, allowing organizations to address emerging ethical failures in real-time through adaptive leadership. Fourth, the framework ensures Harmlessness, protecting both Hifz al-Mal (Preservation of Wealth) and inherent human dignity from technological overreach. Finally, it centralizes the Common Good (Maslahah), ensuring that AI adoption is aligned with the holistic prosperity of the community rather than isolated technical efficiency. By waving these pillars into a continuous, reflective practice, the framework resolves the tension between automation and agency, establishing the professional as a true steward of the digital age.

5. Conclusion and Recommendation

Technology without character is a systemic risk to Islamic Finance. The prevailing "toothless" high-level principles are insufficient for the complexities of Industry 5.0. We must adopt a pluralist framework (Ofosu-Asare, 2025) where AI ethics is a core component of continuous character education rather than a mere regulatory checklist.

For the recommendations on the Industry and Academia, Universities and bodies like AAOIFI must immediately initiate Curriculum Redesign on academic part which move beyond technical reductionism. We demand the integration of digital ethics and Maqasid modules directly into technical training, utilizing multidisciplinary, reflexive practices to ensure graduates are not merely "trained accomplices to deception."

Second recommendation is on industry part by Continuous Moral Development in which financial institutions must transition from ad-hoc compliance training to a culture of "Ethics in Motion." This involves the active use of moral exemplars and mentorship to combat the moral fatigue inherent in high-pressure digital environments.

Third is Value-Based AI Auditing for the regulatory part which regulators must move from passive checklists to active, value-based auditing. AI systems should be evaluated for their alignment with Islamic justice and the common good. We must develop computational tools that can audit for bias remediation and transparency in real-time. The "Digital Khalifah" bears the solemn duty of ensuring a just and equitable financial future. By anchoring technological advancement in steadfast character, Islamic finance will lead the global shift toward truly ethical finance.

References

AbdulKareem, A. K., & Oladimeji, K. A. (2024). Cultivating the digital citizen: trust, digital literacy and e-government adoption. *Transforming Government: People, Process and Policy*, 18(2), 270–286. <https://doi.org/10.1108/tg-11-2023-0196>.

- Akbarighatar, P. (2025). Operationalizing responsible AI principles through responsible AI capabilities. *AI and Ethics*. <https://link.springer.com/content/pdf/10.1007/s43681-024-00524-4.pdf>.
- Akter, N., Nepo, M. N. I., Chowdhury, M. S., Sadique, M. S., Haque, M. E., Bhuiyan, T., & Hasan, M. (2026). Responsible AI integration in higher education: drivers and effects in the context of Bangladesh. *The International Journal of Information and Learning Technology*. <https://doi.org/10.1108/IJILT-09-2025-0268>.
- Al-Hajaya, K. (2025). Academic integrity is under fire in the Generative AI age; insights from accounting educators. *Higher Education, Skills and Work-Based Learning*, 16(1), 237-253. <https://doi.org/10.1108/heswbl-02-2025-0060>.
- Alkhwaldi, A. F., Abdulmuhsin, A. A., Masa'deh, R., & Abu-AlSondos, I. A. (2025). Business intelligence adoption in higher education: the role of data-driven decision-making culture and UTAUT. *Journal of International Education in Business*, 18(4), 484-504. <https://doi.org/10.1108/jieb-08-2024-0110>.
- Anwar, S., Memon, H., & Soomro, B. A. (2026). The role of digital leadership in enhancing E-knowledge, organizational agility and innovation. *Asian Education and Development Studies*. <https://doi.org/10.1108/AEDS-04-2025-0168>.
- Arianpoor, A., & Abdollahi, A. (2024). A new challenge in accounting education-convergence of maturity model, education and evaluation in accounting. *Accounting Research Journal*, 37(2), 211-233. <https://doi.org/10.1108/arj-09-2023-0240>.
- Asad, M. M., Rind, A. A., & Almusharraf, N. M. (2025). Challenges and mitigating strategies for sustainable development of digitally transformed Community 5.0. *Asian Education and Development Studies*. <https://doi.org/10.1108/AEDS-04-2025-0167>.
- Baker, R. S., & Hawn, A. (2022). Algorithmic Bias in Education. *International Journal of Artificial Intelligence in Education*, 32(4), 1052-1092. <https://www.sciencedirect.com/science/article/pii/S1560429226002350>.
- Ballantine, J., Boyce, G., & Stoner, G. (2024). A critical review of AI in accounting education: Threat and opportunity. *Critical Perspectives on Accounting*, 99, 102711. <https://www.sciencedirect.com/science/article/pii/S1045235424000108>.
- Barrett, C., & Gosling, M. (2025). Social value in the Further Education and Skills sector in England. *Education + Training*. <https://doi.org/10.1108/ET-08-2025-0681>.
- Barus, O. P., Hidayanto, A. N., Handri, E. Y., Sensuse, D. I., & Yaiprasert, C. (2025). Shaping generative AI governance in higher education: Insights from student perception. *International Journal of Educational Research Open*, 8, 100452. <https://www.sciencedirect.com/science/article/pii/S2666374025000184>.
- Bond, M., Khosravi, H., De Laat, M., Bergdahl, N., Negrea, V., Oxley, E., Pham, P., Chong, S. W., & Siemens, G. (2024). A meta systematic review of artificial intelligence in higher education: a call for increased ethics, collaboration, and rigour. *International Journal of Educational Technology in Higher Education*, 21(1), 4. <https://link.springer.com/content/pdf/10.1186/s41239-023-00436-z.pdf>.
- Cho, C. H., & Costa, E. (2024). Sustainability accounting education: challenges and outlook. *International Journal of Sustainability in Higher Education*, 25(7), 1412-1425. <https://doi.org/10.1108/IJSHE-02-2024-0152>.

- Clark, S., Mucinskas, D., Barendsen, L., McHugh, K., & Cantor, A. (2025). Global youth perspectives on 'good work' role models; a qualitative study of character strengths and behaviors. *Journal of Character Education*, 21(1-2), 5-18. <https://doi.org/10.1108/jced-08-2025-0007>.
- Contreras, E., & Garcia, P. K. (2025). Insights on integrating servant leadership and character formation-alumnae perspectives from a youth development program in the Philippines. *Journal of Character Education*, 21(1-2), 30-45. <https://doi.org/10.1108/jced-09-2025-0010>.
- Dang, T. V., Le, H. H., & Pham, T. T. H. (2026). The evolution of open pedagogy in higher education: a bibliometric perspective. *Asian Association of Open Universities Journal*. <https://doi.org/10.1108/AAOUJ-06-2025-0070>.
- Ekasari, K., Djamhuri, A., Eltivia, N., & Miharso, A. (2026). Ethics in motion-a transformative pedagogy of repetition for future-ready accounting education. *International Journal of Ethics and Systems*. <https://doi.org/10.1108/IJOES-07-2025-0404>.
- Elbanna, S., & Armstrong, L. (2023). Exploring the integration of ChatGPT in education: adapting for the future. *Management and Sustainability: An Arab Review*, 3(1), 16-29. <https://doi.org/10.1108/msar-03-2023-0016>.
- Filho, L. F. P. C., Moraes, G. H. S. M., & Gavira, M. D. O. (2026). Sustainability and higher education quality: evidence from Brazilian HEIs. *International Journal of Sustainability in Higher Education*. <https://doi.org/10.1108/IJSHE-09-2025-1093>.
- Glanzer, P. L., & Cockle, T. F. (2023). Students' Perceptions of moral change and influence in college: A Case Study of Undergraduate Seniors at a Faith-Based University. *Journal of Character Education*, 18(2), 23-38. <https://doi.org/10.1108/jced-11-2023-0003>.
- Hardey, M., & Pimblett, C. (2026). The canary in the coal mine: neurodivergent learners in Education 5.0. *Education Innovations: Systems and Future Learning*, 1(2), 1-21. <https://doi.org/10.1108/eisfl-12-2025-0065>.
- Hartanto, R. (2025). Ethical behavior of accounting students-exploring the impact of religious environmental background in university. *Journal of Islamic Accounting and Business Research*. <https://doi.org/10.1108/JIABR-12-2024-0504>.
- Junaidi, J., Anwar, S. M., Sahrir, S., Ath-Thariq, M., Rosdiana, S., & Imran, M. P. (2025). The role of religious social capital on students' entrepreneurial motivation-a self-determinant theory perspective. *Journal of Entrepreneurship and Public Policy*, 14(4), 623-641. <https://doi.org/10.1108/JEPP-08-2024-0126>.
- Kundu, A. (2025). Crafting effective school teachers-a comparative study of Finland, Japan and India. *International Journal of Comparative Education and Development*, 27(3-4), 177-195. <https://doi.org/10.1108/ijced-05-2024-0042>.
- Le, T. M. D., Nguyen, T. N. M., Trinh, N. Q., Nguyen, T. A., Nguyen, T. N. L., & Tran, N. B. N. (2026). AI dependence in higher education: effects on students' decision-making autonomy, learning engagement, and privacy concerns. *The International Journal of Information and Learning Technology*. <https://doi.org/10.1108/IJILT-11-2024-0276>.
- Lopez, A. A., Igartua, J. I., Retegi, J., Eguren, J. A., & Ibarra, D. (2025). Addressing the challenges associated with Industry 5.0 in higher education. *The TQM Journal*, 38(4), 713-731. <https://doi.org/10.1108/tqm-12-2024-0524>.

- Lu, Y. C. (2025). Exploring multicultural sensitivity in character education-qualitative study comparing teachers' views on character education in Taiwan and the UK. *Journal of Character Education*, 21(1-2), 60-75. <https://doi.org/10.1108/jced-08-2025-0006>.
- Ma, Y., & Wright, E. (2022). Expanding flexible citizenship-Chinese international school students and global mobilities for higher education. *Studies in Transition States and Societies*, 19(2), 101-115. <https://doi.org/10.1108/stics-05-2022-0010>.
- Makmun, A. H., Yusnaldi, Y., Damrus, D., & Mardaleta, M. (2025). Role conflict and career satisfaction in a state-oriented higher education system-mediating role of three burnout subtypes. *Journal of Applied Research in Higher Education*. <https://doi.org/10.1108/JARHE-03-2025-0204>.
- Mendonça, S. E., Allman, K. R., Lamb, M., & Livingston, D. (2024). Exemplars of Justice: Supporting College Students' Critical Consciousness Development through Cross-Institutional Engagement. *Journal of Character Education*, 20(1), 51-68. <https://doi.org/10.1108/jced-10-2024-0006>.
- Moraes, E. B., Kipper, L. M., Kellermann, A. C. H., Austria, L., Leivas, P., Moraes, J. A. R., & Witczak, M. (2022). Integration of Industry 4.0 technologies with Education 4.0: advantages for improvements in learning. *Interactive Technology and Smart Education*, 20(2), 271-287. <https://doi.org/10.1108/itse-11-2021-0201>.
- Nanjundaswamy, A., Divyashree, M. S., Suraj, N., Kulal, A., Rahiman, H. U., & Kodikal, R. (2024). Adapting accounting education to evolving business paradigm—an Indian perspective. *Journal of Applied Research in Higher Education*, 17(5), 1914-1932. <https://doi.org/10.1108/jarhe-04-2024-0202>.
- Negm, E. (2024). Investigating universities' social-marketing initiatives that impact students' pro-environmental behaviors. *Marketing and Social Research Association Journal*, 3(4), 404-420. <https://doi.org/10.1108/msar-04-2023-0019>.
- Nguyen-Viet, B., & Doan, H. (2025). Integrating gamification and AI in higher education: motivation and learning effectiveness. *Asian Education and Development Studies*. <https://doi.org/10.1108/AEDS-09-2025-0466>.
- Nurhayati, L., Supriadi, U., Jenuri, J., & Karim, A. (2025). Integrating digital citizenship and religious moderation in open and distance education-a holistic approach to character development in Indonesia. *Asian Association of Open Universities Journal*, 20(3), 261-275. <https://doi.org/10.1108/aaouj-02-2025-0025>.
- Nygreen, K., & McDermott, K. (2021). Teachers' perspectives on performance character education: Meanings, Practices, and Tensions. *Journal of Character Education*, 17(1), 1-18. <https://doi.org/10.1108/jce-06-2021-0002>.
- Ofosu-Asare, Y. (2025). Guiding the future: developing an ethical framework for generative AI use in education. *The International Journal of Information and Learning Technology*, 43(1), 26-44. <https://doi.org/10.1108/ijilt-06-2024-0113>.
- Pacheco, M. B., McKee, J. C., & Lai, Y. (2024). Dignity and Discourses: Student Perspectives from the Human Dignity Curriculum. *Journal of Character Education*, 20(1), 19-35. <https://doi.org/10.1108/jced-10-2024-0003>.
- Pariyanti, E., Wibowo, M., Sultan, Z., & Patirol, S. P. S. (2025). Navigating the ethical dilemma in digital learning-balancing artificial intelligence with spiritual integrity to address cheating. *Journal of Applied Research in Higher Education*. <https://doi.org/10.1108/JARHE-10-2024-0522>.

- Paulino, E. P., Aterrad, A. L., & Dumala-Rayray, M. (2025). When does digital engagement backfire? Curvilinear relationship in literacy. *Digital Transformation and Society*, 4(4), 442-464. <https://doi.org/10.1108/dts-10-2024-0213>.
- Posillico, J. J., Stanislav, T., & Edwards, D. (2026). Development of a human-centric pedagogical ethos for construction management education amidst industry 5.0. *Education + Training*. <https://doi.org/10.1108/ET-03-2025-0132>.
- Pradana, D. A., Rachman, A., Rosyidah, E., & Susanti, H. D. (2025). Exploring the integration of project-based learning and flipped classroom to enhance students' entrepreneurial skills in higher education. *Higher Education, Skills and Work-Based Learning*, 16(2), 329-345. <https://doi.org/10.1108/heswbl-10-2025-0449>.
- Rodrigues, M., Garcez, A., Borges, A. P., Franco, M., & Silva, R. (2026). PTCP – scale of personality traits and creative practices: validation in higher education institutions. *Journal of Applied Research in Higher Education*. <https://doi.org/10.1108/JARHE-07-2025-0530>.
- Saadeldin, M. M. K. (2026). Navigating consumers' religiosity and consumption trajectories-a narrative-biographical approach. *Journal of Islamic Marketing*. <https://doi.org/10.1108/JIMA-10-2025-0632>.
- Sanusi, S., Rusnawati, R., Pelas, M. U., Halik, H., & Maksum, H. (2026). Sociology of citizenship and AI ethics: reshaping higher education. *Qualitative Research Journal*. <https://doi.org/10.1108/QRJ-09-2024-0219>.
- Sony, M., & Karingada, K. T. B. (2024). Education 4.0 unravelled: deciphering critical success factors for successful implementation. *Journal of Applied Research in Higher Education*, 17(3), 880-903. <https://doi.org/10.1108/jarhe-10-2023-0459>.
- Sultan, E. A. J., Abdulmuhsin, A. A., Rehman, S. U., Alkhwalidi, A. F., Abu-AlSondos, I. A., & Yaseen, S. G. (2026). Bridging minds in the metaverse: unveiling academics' intentions through a UTAUT3 lens on relational capital integration. *Information Discovery and Delivery*. <https://doi.org/10.1108/IDD-06-2025-0155>.
- Vo, N. Q. T., Tran, P. K. T., & Nguyen, D. H. T. (2026). How experiential learning and AI readiness foster career adaptation in hospitality and tourism education. *Journal of Tourism Futures*. <https://doi.org/10.1108/JTF-10-2025-0312>.
- Zhou, M., Sepulveda, J., Liang, B., Linger, J., Lund, T., & Mousseau, A. D. (2023). Purpose in the Face of Adversity: The Roles of Meaning-Making and Adversity Among Purposeful College Students. *Journal of Character Education*, 18(2), 1-15. <https://doi.org/10.1108/jced-11-2023-0002>.