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ARTIFICIAL INTELLIGENCE AND COMPETITIVE ADVANTAGE IN HIGHER EDUCATION: OPPORTUNITIES AND CHALLENGES

Boynazarova Iroda Mahmud qizi

PhD Researcher

Sharof Rashidov Samarkand State University

Email: irodaboyazarova7@gmail.com

ORCID: 0009-0003-7677-6489

Abstract. Artificial intelligence (AI) is increasingly transforming higher education, creating new opportunities to enhance educational quality, institutional efficiency, research capacity, student support, and graduate employability. However, the extent to which AI can generate sustainable competitive advantage remains insufficiently understood. The study examines AI as a strategic organizational capability and explores how its integration with human capital, institutional processes, educational quality, labour-market alignment, and responsible governance can contribute to the long-term competitiveness of higher education institutions.

Drawing on the Resource-Based View (RBV), the study employs a qualitative, evidence-based research design based on systematic secondary-data analysis and theoretical synthesis of evidence from UNESCO, the World Economic Forum, and the OECD. The findings indicate that AI adoption alone does not constitute a sustainable competitive advantage; rather, strategic value emerges when AI is effectively integrated with distinctive human and organizational capabilities. The evidence also indicates the increasing institutionalization of AI governance and growing labour-market demand for AI-related competencies.

At the same time, data privacy, equality of access, academic integrity, ethical considerations, and institutional readiness remain important areas requiring systematic attention. The study concludes that sustainable competitive advantage depends on the development of responsible, strategically aligned, and human-centred AI capabilities.

Keywords: artificial intelligence, higher education, competitive advantage, Resource-Based View, AI capability, generative AI, digital transformation, human capital, institutional capability, educational quality, graduate employability, labour-market alignment, AI governance, responsible AI, digital inequality.

Аннотация. Искусственный интеллект (ИИ) всё активнее трансформирует высшее образование, создавая новые возможности для повышения качества образования, институциональной эффективности, исследовательского потенциала, поддержки студентов и расширения возможностей трудоустройства выпускников. Вместе с тем вопрос о том, в какой степени ИИ способен формировать устойчивое конкурентное преимущество, остаётся недостаточно изученным. Исследование рассматривает ИИ как стратегический организационный потенциал и анализирует, каким образом его интеграция с человеческим капиталом, институциональными процессами, качеством образования, соответствием требованиям рынка труда и ответственным управлением может способствовать долгосрочной конкурентоспособности высших учебных заведений.

Основываясь на ресурсно-ориентированном подходе (Resource-Based View — RBV), исследование использует качественный, основанный на доказательствах дизайн, включающий систематический анализ вторичных данных и теоретический синтез материалов ЮНЕСКО, Всемирного экономического форума и ОЭСР. Результаты показывают, что внедрение ИИ само по себе не обеспечивает устойчивого конкурентного преимущества; стратегическая ценность возникает при эффективной интеграции ИИ с уникальными человеческими и организационными возможностями. Полученные данные также свидетельствуют о возрастающей институционализации управления ИИ и росте спроса на связанные с ИИ компетенции на рынке труда.

Вместе с тем вопросы конфиденциальности данных, равенства доступа, академической добросовестности, этических аспектов и институциональной готовности остаются важными



направлениями, требующими системного внимания. Результаты исследования позволяют заключить, что устойчивое конкурентное преимущество зависит от развития ответственного, стратегически согласованного и ориентированного на человека потенциала ИИ.

Ключевые слова: искусственный интеллект, высшее образование, конкурентное преимущество, ресурсно-ориентированный подход, потенциал ИИ, генеративный ИИ, цифровая трансформация, человеческий капитал, институциональный потенциал, качество образования, трудоустройство выпускников, соответствие требованиям рынка труда, управление ИИ, ответственный ИИ, цифровое неравенство.

Annotatsiya. Sun'iy intellekt (SI) oliy ta'lim tizimini tobora kengroq transformatsiya qilib, ta'lim sifatini oshirish, institutsional samaradorlikni ta'minlash, tadqiqot salohiyatini rivojlantirish, talabalarni qo'llab-quvvatlash va bitiruvchilarning ishga joylashish imkoniyatlarini kengaytirish uchun yangi imkoniyatlar yaratmoqda. Biroq SI qay darajada barqaror raqobat ustunligini shakllantirishi mumkinligi hali yetarlicha o'rganilmagan. Tadqiqotda sun'iy intellekt strategik tashkiliy salohiyat sifatida ko'rib chiqilib, uning inson kapitali, institutsional jarayonlar, ta'lim sifati, mehnat bozori talablariga muvofiqlik va mas'uliyatli boshqaruv bilan integratsiyalashuvi oliy ta'lim muassasalarining uzoq muddatli raqobatbardoshligiga qanday hissa qo'shishi tahlil qilingan.

Resursga asoslangan qarash (Resource-Based View — RBV) nazariyasiga tayangan holda, tadqiqotda BMTning Ta'lim, fan va madaniyat masalalari bo'yicha tashkiloti (UNESCO), Jahon iqtisodiy forumi va Iqtisodiy hamkorlik va taraqqiyot tashkiloti (OECD) ma'lumotlarining tizimli ikkilamchi tahlili hamda nazariy sinteziga asoslangan sifatli, dalillarga tayanuvchi tadqiqot dizayni qo'llanilgan. Natijalar SI texnologiyalarini joriy etishning o'zi barqaror raqobat ustunligini ta'minlamasligini, aksincha, strategik qiymat SI o'ziga xos inson va tashkiliy salohiyat bilan samarali integratsiyalashganda yuzaga kelishini ko'rsatadi. Shuningdek, SI boshqaruvining institutsionallashuvi kuchayib borayotgani hamda mehnat bozorida SI bilan bog'liq kompetensiyalarga talab ortayotgani aniqlangan.

Shu bilan birga, shaxsiy ma'lumotlar maxfiyligi, foydalanish imkoniyatlaridagi tenglik, akademik halollik, axloqiy jihatlar va institutsional tayyorgarlik tizimli e'tibor talab qiladigan muhim yo'nalishlar bo'lib qolmoqda. Tadqiqot natijalariga ko'ra, barqaror raqobat ustunligini ta'minlash mas'uliyatli, strategik jihatdan muvofiqlashtirilgan va insonga yo'naltirilgan SI salohiyatini rivojlantirishga bog'liq.

Kalit so'zlar: sun'iy intellekt, oliy ta'lim, raqobat ustunligi, resursga asoslangan qarash, SI salohiyati, generativ SI, raqamli transformatsiya, inson kapitali, institutsional salohiyat, ta'lim sifati, bitiruvchilarning ishga joylashishi, mehnat bozori talablariga muvofiqlik, SI boshqaruvi, mas'uliyatli SI, raqamli tengsizlik.

INTRODUCTION

Artificial intelligence is rapidly transforming higher education, extending beyond administrative automation to teaching, learning, assessment, research, student support, and institutional decision-making. The rapid diffusion of generative AI has intensified this transformation, creating opportunities to enhance educational quality, operational efficiency, research capacity, and graduate employability. At the same time, AI integration requires careful consideration of academic integrity, privacy, equality, bias, accountability, and institutional readiness. The strategic value of AI therefore depends not simply on technology adoption but also on how effectively universities integrate AI with human expertise, institutional knowledge, organizational processes, and governance mechanisms.

From the perspective of the Resource-Based View, such complementary capabilities may become valuable and difficult-to-imitate sources of sustainable competitive advantage. However, existing research has largely focused on pedagogical applications, technology adoption, learning outcomes, and ethical considerations, with comparatively limited attention to how institution-level AI capabilities generate sustainable competitive advantage. Accordingly, this study examines AI as a strategic organizational capability and investigates how its integration with human capital, educational quality, labour-market alignment, institutional processes, and responsible governance can contribute to the long-term competitiveness of higher education institutions.

LITERATURE REVIEW

Artificial intelligence has rapidly emerged as a transformative technology in higher education, extending beyond administrative automation to teaching, learning, assessment, research, and student support. The growing strategic importance of technological and organizational resources can be understood through the Resource-Based View, which emphasizes that firms can achieve competitive advantage by developing and



deploying resources that create distinctive value [1]. Building on this perspective, Barney argues that sustained competitive advantage depends on resources that are valuable, rare, difficult to imitate, and appropriately organized within the firm [2]. In the context of higher education, these principles are particularly relevant because universities compete not only through physical and technological infrastructure but also through knowledge, human capital, organizational capabilities, reputation, innovation, and institutional routines.

The application of the resource-based perspective to higher education suggests that institutional competitiveness is closely associated with the effective management of knowledge-based, reputational, innovative, and organizational resources [3]. Against this background, AI represents a potentially important strategic resource, but its value cannot be reduced to the mere availability of digital technologies. Systematic research demonstrates that AI applications in education have expanded substantially and now encompass a broad range of pedagogical and institutional functions [4]. Similarly, research on higher education shows that AI is increasingly being applied across teaching, learning, assessment, academic support, administration, and other institutional activities, confirming the growing integration of AI into core university processes [5].

More recent evidence indicates that generative AI is further accelerating this transformation. The literature identifies increasingly diverse applications of generative AI across higher education, including engineering, health and medicine, language education, and other disciplinary contexts [6]. At the same time, recent reviews emphasize that the educational value of generative AI depends strongly on how these technologies are incorporated into instructional processes rather than simply on their availability. This is particularly important from a strategic perspective because the widespread accessibility of AI technologies may limit the extent to which technology ownership itself can constitute a sustainable source of differentiation. Instead, the strategic value of AI is more likely to emerge through institution-specific capabilities that enable universities to integrate AI into academic and organizational activities.

This argument is reinforced by strategic management research on artificial intelligence and competitive advantage. AI can alter the sources of organizational advantage by creating new complementarities between human and technological capabilities rather than functioning solely as a substitute for human labour [7]. In higher education, such complementarities may involve combining AI systems with faculty expertise, institutional knowledge, data resources, organizational learning, and established routines. The resulting capability is therefore potentially more difficult to replicate than access to an individual AI application. From this perspective, AI should be conceptualized not simply as a technological input but as part of a broader organizational capability through which universities can generate superior educational, research, administrative, and student-service outcomes.

The literature also identifies substantial opportunities associated with AI-enabled digital transformation. AI can support personalized learning, tutoring, research activities, administrative processes, and more efficient educational service delivery. The realization of these benefits is enhanced by appropriate pedagogical design, institutional readiness, human competencies, and effective governance. UNESCO emphasizes a human-centred approach to generative AI in education and research, highlighting the importance of inclusion, human agency, ethical safeguards, and responsible implementation [8]. Complementing this perspective, UNESCO's AI competency framework for teachers emphasizes the development of the knowledge, skills, and values required to use AI effectively while preserving human judgement, agency, and ethical responsibility [9]. These perspectives indicate that the strategic value of AI is fundamentally dependent on the complementary human and organizational resources surrounding the technology.

The importance of this human–AI relationship is further supported by UNESCO's framework for AI competencies among students, which highlights the need to develop learners' capabilities to understand, evaluate, and use AI responsibly and effectively [10]. Accordingly, universities seeking to derive long-term value from AI must invest not only in technological infrastructure but also in faculty development, student competencies, pedagogical redesign, institutional learning, and appropriate organizational routines. AI capability can therefore be viewed as a multidimensional construct that encompasses technological resources as well as the human and institutional capacities required to deploy those resources effectively.

From a labour-market perspective, the strategic relevance of AI is also increasing. The World Economic Forum identifies AI and big data among the fastest-growing skill areas and reports substantial expected changes in the skills required across occupations by 2030 [11]. These developments have direct implications for higher education because institutional competitiveness increasingly depends on the ability of universities to align curricula and graduate competencies with changing employer expectations. Institutions that systematically integrate AI-related knowledge and skills into educational programmes may therefore strengthen graduate employability and improve their positioning within increasingly competitive higher education markets.

At the institutional level, the transition toward AI-enabled higher education is accompanied by a growing emphasis on governance and formal policy development. UNESCO's 2025 global survey of higher education institutions associated with UNESCO Chairs and UNITWIN Networks indicates that institutions are increasingly establishing or developing guidance for AI use [12]. This trend suggests a movement from experimental and



individually driven adoption toward more formal institutional structures involving policies, competencies, accountability, and organizational processes. At the same time, UNESCO's competency framework for teachers reinforces the importance of ensuring that AI integration remains aligned with professional standards, educational objectives, and human-centred principles [13].

The literature further indicates that AI-enabled transformation is accompanied by several areas requiring systematic institutional attention. These include academic integrity, privacy and data protection, algorithmic bias, misinformation, ethical accountability, equality of access, and differences in digital capabilities. Such considerations are particularly important because technological adoption may occur under different conditions across institutions and student populations. Evidence from Uzbekistan also demonstrates the relevance of these issues at the national level, with research identifying positive attitudes toward AI alongside opportunities for further development in digital competencies, technological infrastructure, and regulatory clarity [14]. Related research on AI in educational management in Uzbekistan similarly emphasizes the opportunities offered by AI while identifying infrastructure, data quality, privacy, algorithmic bias, and staff preparedness as important areas for continued institutional development [15].

RESEARCH METHODOLOGY

This study employs a qualitative, evidence-based research design combining systematic secondary-data analysis and theoretical synthesis to examine how artificial intelligence (AI) can contribute to competitive advantage in higher education. The methodological approach is grounded primarily in the **Resource-Based View**, which conceptualizes AI-related technological capabilities, institutional knowledge, human expertise, and organizational routines as strategic resources that may generate competitive advantage when they are valuable, difficult to imitate, and effectively integrated into institutional processes.

The empirical evidence was derived from authoritative international sources, including UNESCO, the World Economic Forum, and the OECD. Particular emphasis was placed on UNESCO's 2025 global survey of higher education institutions associated with UNESCO Chairs and UNITWIN Networks. The survey achieved a 38% response rate and included institutions across all major world regions, providing a relevant international evidence base while requiring appropriate consideration when interpreting its broader applicability. Complementary labour-market evidence was obtained from the WEF *Future of Jobs Report 2025*, which draws on the views of more than 1,000 employers representing over 14 million workers across 55 economies.

The analysis followed three stages. First, relevant quantitative indicators concerning AI adoption, institutional governance, workforce skills, and digital inequality were extracted from the selected sources. Second, the evidence was thematically analysed across three dimensions: **AI-enabled institutional capabilities, educational and labour-market alignment, and governance, equity, and ethical considerations**. Third, these findings were interpreted through the Resource-Based View framework to assess the conditions under which AI can contribute to sustainable competitive advantage rather than merely technological adoption.

To strengthen analytical validity, the study triangulated evidence across international organizations. The WEF reports that AI and big data are considered core skills by 45% of surveyed employers, while technological literacy is identified by 51%. Moreover, 39% of existing skill sets are expected to be transformed or become outdated by 2030. OECD evidence was additionally used to contextualize the findings, particularly its emphasis that effective digital transformation requires not only technology but also appropriate pedagogical practices, governance, infrastructure, and human competencies.

The study also considers relevant methodological aspects associated with the interpretation of the results. Because the research relies predominantly on secondary international evidence, the analysis focuses on identifying emerging relationships and strategic patterns rather than establishing direct causal relationships between AI adoption and institutional competitiveness. Furthermore, UNESCO's sample provides an important international evidence base, although it does not statistically represent all higher education institutions. Accordingly, the findings are interpreted as evidence of emerging relationships and strategic patterns rather than as causal estimates. Future empirical research can further validate the proposed relationships through longitudinal institutional datasets, cross-country surveys, and structural equation modelling involving AI capability, service quality, innovation capacity, student experience, and competitive advantage as measurable constructs.

Despite the rapidly expanding body of literature, an important research gap remains. Existing scholarship has predominantly examined the pedagogical applications of AI, technology adoption, learning outcomes, user acceptance, competencies, and ethical considerations. Comparatively less attention has been devoted to explaining **how institution-level AI capabilities are transformed into sustainable competitive advantage in higher education**. In particular, the mechanisms through which AI interacts with human capital, institutional knowledge, organizational routines, educational quality, research and innovation, graduate employability,



student experience, and responsible governance remain insufficiently integrated within a single strategic perspective. Addressing this gap, the present study applies an RBV-based framework to conceptualize AI as a strategic organizational capability rather than merely an educational technology. This perspective enables a more comprehensive examination of the conditions under which AI can generate distinctive institutional value and contribute to the long-term competitiveness of higher education institutions.

ANALYSIS AND RESULTS

The findings indicate that artificial intelligence is increasingly becoming a strategic determinant of competitive advantage in higher education. Evidence from UNESCO's 2025 global survey shows that nearly two-thirds of higher education institutions hosting a UNESCO Chair or participating in a UNITWIN Network have already developed or are currently developing institutional guidance on AI use. This finding demonstrates a substantial shift from experimental adoption toward institutionalized AI governance and suggests that universities increasingly perceive AI capability as an element of institutional competitiveness.

From a Resource-Based View perspective, AI-related capabilities can generate competitive advantage when they are effectively integrated with human expertise, organizational processes, and institutional knowledge. The results support this interpretation: AI adoption alone does not constitute a sustainable advantage; rather, such an advantage emerges from an institution's capacity to transform AI technologies into higher-quality teaching, research, student support, and administrative services. This is consistent with UNESCO's human-centred framework, which emphasizes institutional capacity-building, AI competencies, pedagogical validation, and ethical governance.

The labour-market dimension further reinforces these findings. The World Economic Forum reports that 45% of employers identify AI and big data as core workforce skills, while technological literacy is considered essential by 51% of employers. Moreover, 39% of existing employee skill sets are expected to be transformed or become outdated during 2025–2030. Consequently, universities capable of embedding AI competencies into curricula are better positioned to align educational outcomes with evolving labour-market requirements.

At the same time, the results identify several areas requiring systematic institutional attention. UNESCO highlights privacy, safety, equality, ethical governance, and institutional preparedness as important considerations associated with AI integration. Therefore, the evidence suggests that sustainable competitive advantage depends not simply on the adoption of AI but on responsible, strategically aligned, and human-centred AI implementation.

The findings demonstrate that AI is evolving from an emerging educational technology into a strategic capability that can influence competitive advantage in higher education. UNESCO's 2025 survey found that 19% of institutions already had a formal AI policy, while a further 42% were developing institutional guidance. This supports the RBV perspective that competitive advantage increasingly depends on organizational capabilities to integrate AI with human capital, knowledge, and institutional processes rather than on technology adoption alone.

The labour-market evidence further strengthens this interpretation. The World Economic Forum reports that AI and big data are among the fastest-growing skill areas, while 39% of workers' existing skill sets are expected to be transformed or become outdated by 2030. Therefore, universities that systematically integrate AI competencies into curricula may improve graduate employability and strengthen their market positioning.

A major strength of this study is its integration of technological, institutional, and labour-market dimensions. At the same time, its reliance on secondary international evidence provides opportunities for further empirical validation of causal relationships. UNESCO's survey achieved a 38% response rate and focused specifically on UNESCO Chairs and UNITWIN Networks; therefore, the findings can be further complemented by broader studies covering diverse higher education institutions.

Future research should therefore employ longitudinal and cross-country empirical designs, combining institutional data with student and faculty surveys. Structural equation modelling could further test whether AI capabilities influence competitive advantage directly or indirectly through service quality, innovation capacity, and student experience. Particular attention should also be given to equity: UNESCO estimates that approximately 2.6 billion people remained offline in 2024, highlighting the importance of expanding digital access to ensure more equitable AI-enabled educational opportunities.

CONCLUSION AND SUGGESTIONS

Artificial intelligence is becoming an increasingly important strategic capability in higher education, but its contribution to competitive advantage depends on how effectively institutions integrate AI with human capital, organizational processes, institutional knowledge, and responsible governance. The findings demonstrate that



AI adoption alone is insufficient to create sustainable advantage; rather, competitive value emerges when universities transform AI technologies into improved educational quality, research capacity, student support, administrative efficiency, and labour-market alignment.

From a Resource-Based View perspective, institution-specific combinations of technological and complementary organizational capabilities may provide more sustainable sources of differentiation than access to AI tools alone. At the same time, privacy, academic integrity, equality, ethical governance, and institutional preparedness remain important areas requiring systematic attention. Sustainable AI-enabled competitiveness therefore requires a human-centred and strategically aligned approach that balances innovation with accountability and equity.

Given the study's reliance on secondary international evidence, future research can further strengthen the empirical foundation by employing longitudinal, cross-country research designs to test the proposed relationships between AI capability, service quality, innovation capacity, student experience, and competitive advantage.

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