REVOLUTIONISING INDIAN EDUCATION AND LEARNING THROUGH TECHNOLOGY INTEGRATION

Madhu Jasola, IILM University, Gurugram

ABSTRACT

India holds a prominent position in the global education landscape, boasting of one of the largest number of higher learning institutions worldwide. With 580 million individuals aged between 5 to 24 years, India possesses an immense potential within the education sector. Surpassing all other nations, India accommodates over 250 million school students, setting a remarkable benchmark. The education sector in India offers abundant prospects for expansion. There are 1200 Universities and 50,000 colleges in India. The education sector in India was worth US$ 117 billion in 2020 and is expected to reach US$ 225 billion by 2025. The institutions should blend online and offline education so that students are well prepared for natural calamities and climate change. Emphasis should be given on mental health and well being of students as well as faculty on regular basis. Online technology adaptation opens door for entrepreneurship. Manual jobs of faculty has been replaced with artificial intelligence and machine learning solutions. Use of chatbots and software are helping in evaluation of students. Public Private collaboration also plays a very important role.

Keywords: Higher Education, Prospects, Challenges, Technology.

INTRODUCTION

The Indian higher education system is one of the largest in the world, with a vast network of universities, colleges and research institutions. Its historical roots date back to ancient times, with prestigious centers of learning like Nalanda and Takshashila, which attracted scholars from across the world. The government established regulatory body University Grants Commission (UGC) in 1956 to oversee the quality of education, maintain standards and allocate funding. During this period, the focus was on building a solid infrastructure for higher education through the establishment of more public universities, ensuring that higher education was accessible to larger sections of society. Over the decades, the Indian higher education landscape has undergone significant transformation. From primarily state-funded institutions, there has been a gradual shift towards privatization, with a growing number of private universities and colleges. While the system has expanded rapidly in terms of access, enrolling millions of students annually, challenges related to quality, governance and equity have emerged. India's higher education system, while vast and diverse, faces both significant opportunities and challenges. In the post-independence period, the Indian government made substantial investments in establishing public universities and technical institutes, which played a crucial role in driving economic and scientific progress. Landmark institutions such as the Indian Institute of Science and the All India Institute of Medical Sciences emerged as leaders in research and professional education. In the early years, public institutions were at the forefront of this transformation. The establishment of major universities and specialized institutions like the Indian Institutes of

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Technology, Indian Institutes of Management marked India's commitment to producing world-class engineers, scientists and managers (Figure 1).

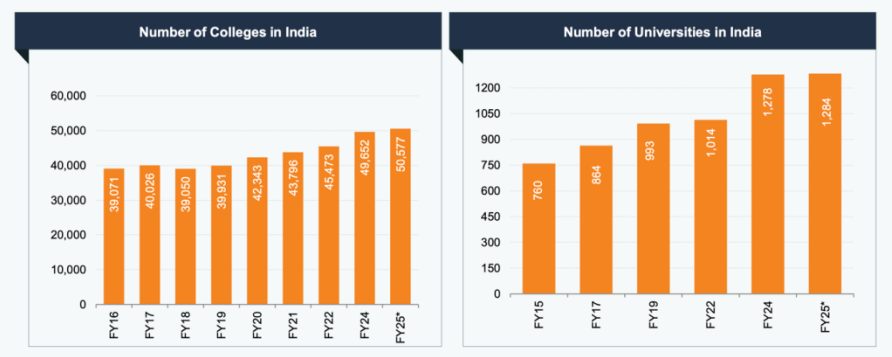

FIGURE 1
HIGHER EDUCATION IN INDIA (SOURCE: UGC, AISHE, PWC)

These institutes, modeled after global centers of excellence, quickly gained recognition for their academic rigor and have since produced a significant portion of India's leading professionals. Linking quality education with technology allows students to obtain knowledge, skills and motivation quickly to understand and address the challenges related to the SDGs (Abad-Segura et al., 2020). Higher Education Institutions also represent a crucial stakeholder in the promotion and implementation of the United Nations (UN) 2030 Agenda for sustainable development (Vallez et al., 2022) and the digitalisation of society by producing knowledge for new technologies and social innovation (Carayannis & Morawska-Jancelewicz, 2022). Public investment in higher education in India has increased significantly over the past decade, focusing on expanding, restructuring and improving the quality of education to shape future social and economic progress (Gopalappa, 2023). Notable institutions are transforming towards more skills-based learning patterns that offer students practical, career-focused skills (Kocak et al., 2021).

Despite these developments, the system has struggled to keep pace with India's growing population and the demands of a globalized world. In the 1980s and 1990s, the higher education sector saw rapid expansion due to the rising demand for education driven by population growth and increasing aspirations of the middle class. To meet this demand, there was a notable rise in private sector participation, with many private colleges and universities being established across the country. The massification of higher education, with a focus on increasing enrollment, led to a multiplication of institutions, particularly in the private sector. While this has expanded access, particularly for middle-class families, it has also raised concerns about the quality of education. Many private institutions, especially in rural and semi-urban areas, lack the infrastructure, qualified faculty and research orientation needed to provide high-quality education. Additionally, regulatory oversight has been inconsistent, with many institutions facing issues related to accreditation and governance. The Indian education system has both positives and negatives, with challenges like inadequate infrastructure, inadequate training and inadequate access to education (Odyuo, 2021). Higher education in India faces challenges in gross enrolment, research output and employability, but recent reforms show promise for improving effectiveness and reducing lag (Kamalakar & Kamala, 2022). According to Singh (2020), the main challenges in the Indian education system include expenditure on education, gross enrolment pattern, capacity utilization, infrastructure facilities, PPP model, student-teacher ratio, accreditation and

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branding. The demographic dividend in India, with a large youth population, presents a significant opportunity for the higher education system. If harnessed effectively, this could lead to a highly skilled workforce capable of driving innovation and economic growth. However, the system must address key challenges such as ensuring equity, particularly for marginalized communities, improving the quality of education and fostering research and development. Higher education faces demographic challenges and needs a change in management to maintain quality and engage students in socio-economic processes (Terziev et al., 2021).

Current Landscape of Indian Higher Education

India's higher education system is composed of a wide variety of institutions, each playing a distinct role in shaping the academic landscape. Broadly, these can be categorized into public institutions, private institutions, universities, technical institutes and research bodies. Each type offers different academic programs and caters to a range of student needs and career aspirations.

1. Public Institutions: Public institutions are funded and operated by the central or state governments. They form the backbone of India's higher education system, providing quality education at relatively low costs. Public institutions include Central Universities, State Universities, Technical Institutes like IITs NIT, Institutes of National Importance (INI) like AIIMS, IIMs.
2. Private Institutions: Private institutions have increased rapidly in India, especially in the last few decades, to meet the rising demand for higher education. These institutions are funded by private organizations or individuals, though they often operate under the regulations of government bodies like the University Grants Commission (UGC). Types of private institutions include Private Universities, Deemed-to-be Universities, Private Colleges and Engineering Institutes.
3. Universities: Universities in India are classified based on the governance structure and the types of degrees they offer. They serve as the primary institutions for higher learning and research. Key types include Central and State Universities, Open Universities, Affiliated Colleges.
4. Technical Institutes: India has a strong focus on technical education, with institutions dedicated to engineering, technology and applied sciences. These include Indian Institute of Technology (IITs), National Institute of Technology (NITs), Polytechnic Institutes offering diploma and vocational programs. Polytechnic institutes focus on practical, hands-on training in engineering and technical fields.
5. Research Bodies: Research bodies in India play a critical role in advancing knowledge across various disciplines. These institutions focus primarily on scientific research, innovation and the creation of new technologies include Indian Institute of Science (IISc)**,** Council of Scientific and Industrial Research (CSIR), Indian Council of Medical Research (ICMR), Indian Space Research Organisation (ISRO).

Enrollment and Accessibility in Indian Higher Education

Enrolment and accessibility in Indian higher education have undergone significant changes over the past few decades, particularly with efforts to democratize education and make it more inclusive for all sections of society. Despite considerable progress, challenges related to equitable access remain, particularly in rural areas and among under represented population. India has one of the largest higher education systems globally, with millions of students enrolling in universities and colleges each year. According to the All India Survey on Higher Education (AISHE) 2020-2021, the total enrollment in higher education was approximately 40 million students (Figure 2).

The Gross Enrollment Ratio in higher education is a key indicator of accessibility, representing the percentage of students enrolled in higher education relative to the eligible population (aged 18-23 years). According to recent data, India's GER for higher education

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stands at 27.1%, showing a steady increase from earlier years. However, while the GER has improved, it still lags behind developed countries, where GER often exceed 50%. The National Education Policy (NEP) 2020 aims to raise India's GER to 50% by 2035, ensuring that a larger proportion of the population has access to higher education.

FIGURE 2
STUDENT ENROLMENT

(SOURCE: AISHE, UGC, DEPARTMENT OF EDUCATION)

Gender representation has seen marked improvement over the years, with female enrollment steadily increasing. According to the AISHE report, female students account for approximately 49% of total enrollment in higher education. This is a significant achievement compared to previous decades, where the gender gap was much wider. In fact, in certain disciplines like arts, social sciences and education, female enrollment has surpassed male enrollment. The rural-urban divide remains a significant barrier to equitable access to higher education in India. While urban areas have better access to quality institutions, infrastructure and resources, rural areas often lag in terms of availability and affordability. The Indian government has taken steps to improve rural access through policies and initiatives like the establishment of rural universities, distance learning programs and digital education platforms. The expansion of Open Universities like Indira Gandhi National Open University (IGNOU) has also helped bridge the gap by offering flexible learning options for rural students. However, disparities in infrastructure, digital access and faculty quality remain significant hurdles. The government has promoted digital learning platforms and introduced programs to improve internet connectivity in rural areas.

Initiatives to Improve Higher Education

The Indian government has introduced several policies and initiatives over the years to expand and improve the quality of higher education. These efforts aim to address various challenges such as equitable access, quality enhancement, infrastructure development and internationalization. The government's policies have played a crucial role in shaping India's higher education environment, aligning it with global standards and the country's developmental goals.

1. National Education Policy (NEP) 2020

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The National Education Policy (NEP) 2020 is one of the most transformative reforms in India's education sector in recent history. The Indian National Education Policy 2020 (NEP 2020) aims to improve the Indian higher education system by incorporating innovations, enhancing student experience, and promoting social progress (Aithal & Aithal, 2020).

. It provides a comprehensive framework for the entire education system, from early childhood education to higher education and research. Improving Indian Higher Education Quality requires a vibrant academic culture, faculty capabilities and a focus on quality research, as outlined in the New Education Policy, 2020 (Deb, 2023). Some of the key highlights of NEP 2020 related to higher education include:

Multidisciplinary Approach: The NEP emphasizes the promotion of a multidisciplinary education system, encouraging institutions to offer a diverse range of courses beyond traditional disciplinary boundaries. The goal is to create holistic, well-rounded individuals who can think critically and creatively.

Flexibility in Academic Pathways: It introduces flexibility in higher education programs by allowing students to take breaks from their studies and return later, thereby making education more learner-centric. The policy also proposes a system of multiple entry and exit points during degree programs.

Establishment of Multidisciplinary Higher Education Institutions (HEIs): NEP 2020 aims to phase out single-stream institutions and replace them with large multidisciplinary HEIs, each offering a broad range of programs in different disciplines.

Creation of Higher Education Commission of India (HECI): The policy proposes the establishment of the HECI, a single regulatory body that will replace multiple regulatory bodies like the University Grants Commission (UGC) and the All India Council for Technical Education (AICTE). HECI will regulate the entire higher education sector, ensuring uniform quality standards.

Gross Enrollment Ratio (GER) Target: NEP aims to raise the GER in higher education to 50% by 2035 from the current rate of 27.1%.

Emphasis on Vocational Education: The NEP promotes the integration of vocational education into higher education curricula to enhance employability and address skill gaps in the workforce.

2. Skill India and Kaushal Kendras

Skill development and vocational training offer significant prospects for individuals and economies. By equipping people with practical, job-specific skills, these programs enhance employability and bridge the gap between education and industry demands. For individuals, vocational training opens doors to various career opportunities, providing the expertise needed in fields like healthcare, technology, manufacturing and more. As economies evolve with advancements in technology and automation, skill development becomes crucial in maintaining a competitive workforce. It helps workers stay relevant in rapidly changing job markets. Moreover, vocational training can boost entrepreneurship, allowing individuals to start their own businesses or innovate within existing industries. On a broader scale, these initiatives foster economic growth, reduce unemployment and improve the overall quality of life by empowering people to earn sustainable income. Higher education in India is increasingly focused on quality, preparing students for employability and lifelong learning, while also fostering critical thinking and social responsibility (Gupta, 2021). Ultimately, skill development and vocational training are

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essential tools for social and economic progress, creating a more inclusive and dynamic workforce. As part of the government's Skill India mission**,** Kaushal Kendras (Model Skill Development Centers) were established to promote vocational and skill-based education at the higher education level. These centers are aimed at:

Enhancing Employability: Offering industry-relevant skill development programs to bridge the gap between academic qualifications and employable skills.

Integration with Higher Education: These programs are increasingly being integrated into traditional university and college courses, allowing students to earn certifications alongside their academic degrees.

3. SWAYAM and Digital Learning Initiatives

In recent years, the government has focused heavily on digital learning platforms like SWAYAM (Study Webs of Active Learning for Young Aspiring Minds). SWAYAM is a massive open online course (MOOC) platform that offers free courses in a variety of disciplines, enabling students to access education remotely. NPTEL (National Programme on Technology Enhanced Learning) and Diksha also provide a wide range of online courses and educational resources. These platforms enable students to access high-quality education from top Indian universities and institutions without geographical constraints. These initiatives play a crucial role in making education more accessible, though the digital divide remains a significant issue. The availability of Open Educational Resources (OER)s, such as free textbooks, lecture notes and multimedia materials, helps reduce the cost of education and provides valuable learning resources to students across the country. There is already a trend toward convergence of digital imperatives and sustainability in practice (George et al., 2021). Collaborative learning in virtual environments can foster intercultural awareness, improve language proficiency, facilitate virtual student mobility, and empower citizens with digital skills to face global challenges (Laufer et al., 2021; Bruhn-Zass, 2021; Núñez-Canal et al., 2022).

With the widespread availability of online learning platforms, universities are increasingly offering courses and degree programs that can be completed entirely online (Dieguez et al., 2021). The prevailing use of traditional, one-size-fits-all teaching methods falls short of effectively engaging students with varied learning preferences, hindering the development of active participation and critical thinking skills (Kistyanto et al., 2022). Moreover, reliance on traditional assessment methods fails to capture a comprehensive understanding of students' knowledge, skills, and practical application, with limited tools for assessing and enhancing non- cognitive skills (Rudolph et al., 2023). The implementation of technology in universities has already been increasing in the last decades (Rodríguez-Abitia & Bribiesca-Correa, 2021). However, the COVID-19 pandemic led universities to an urgent DT process, requiring changes in their models and activities (Nurhas et al., 2021), which also demanded academic research on new practices, strategies, and tools in their context.

Role of Technology Integration

Technology integration is rapidly transforming the perspective of higher education institutions, offering new opportunities and addressing many of the sector's longstanding challenges. The adoption of digital technologies in education is creating a more flexible, accessible and effective learning environment. Technological advancements are expanding access to higher education across India, particularly benefiting students in remote and

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underserved areas. The EdTech industry in India has revolutionized education by providing quality education and personalized experiences, but faces challenges like low learning outcomes, inadequate infrastructure, and a shortage of skilled teachers (Bargavi & Shanmugam, 2023). Virtual Classrooms tools like Zoom**,** Microsoft Teams, and Google Meet facilitate remote learning, allowing students to attend lectures, participate in discussions, and collaborate on projects from anywhere. This is particularly valuable for students in rural areas who may not have access to local higher education institutions. The introduction of a digitalized learning approach changed the landscape of the higher education system (Khoza & Mpungose, 2022).

Technological integration enables more personalized and adaptive learning experiences, catering to the diverse needs and learning styles of students. In recent years, the landscape of higher education in India has been undergoing significant transformations, driven by the need to address various challenges that have long plagued the sector. The integration of advanced technologies such as Artificial Intelligence (AI), Machine Learning (ML) and Virtual Reality (VR) holds the potential to revolutionize Indian higher education, enhancing both the quality and accessibility of learning. As India grapples with issues such as inadequate infrastructure, a shortage of skilled faculty and uneven access to educational resources, these technologies offer innovative solutions that could significantly improve the overall educational experience. One of the foremost challenges in Indian higher education is the disparity in quality between urban and rural institutions. Many students in rural areas lack access to high-quality educational resources and experienced faculty, resulting in educational gap that hinders their academic and professional growth. AI and ML can play a pivotal role in bridging this gap. By leveraging AI-driven platforms, educational institutions can offer personalized learning experiences that cater to the unique needs of individual students. For instance, AI algorithms can analyze students' learning patterns and performance data to provide customized recommendations, helping them to focus on areas where they need improvement. Additionally, AI-powered tutoring systems can offer 24/7 support to students, providing them with assistance and resources that may not be available locally. Moreover, AI can facilitate the creation of intelligent educational content that adapts to different learning styles. For example, adaptive learning systems use AI to modify the difficulty level and type of content based on the learner's progress, ensuring that students are constantly challenged at an appropriate level. This individualized approach not only enhances learning outcomes but also keeps students engaged and motivated. In a country like India, where educational resources are often unevenly distributed, such adaptive systems can ensure that high-quality education is accessible to students regardless of their geographical location. One of the primary applications of AI in higher education is to improve the learning experience for students (Ge & Hu, 2020). Artificial intelligence is playing a vital role in upgrading the quality of higher education in numerous ways (Choi, 2020). AI-based technology such as Chatbots, Virtual Assistance tools, and Adaptive Learning Systems offer immersive and engaging learning experiences that allow students to discover complex theories and solutions in a more interactive and meaningful manner (Chaudhry et al., 2023; Pradana et al., 2023). One of the most optimistic solutions to enhance education is through the implementation of artificial intelligence (AI) (Chedrawi & Howayeck, 2019). The future of artificial intelligence in education is highly promising, as technology is gaining drastic transformation and improving the way we learn and teach (Mishra, 2019).

Machine Learning further complements this by enabling more efficient and accurate assessments of student performance. Traditional examination methods often fail to capture the full spectrum of a student's abilities. However, ML algorithms can analyze vast amount of data

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to provide deeper insights into student learning and progress. For example, ML models can predict student outcomes based on historical data, helping educators identify students who may need additional support before they fall behind. This proactive approach allows institutions to address issues early on, improving overall student success rates. Another significant challenge in Indian higher education is the shortage of qualified faculty members, particularly in specialized fields. AI and ML can help mitigate this issue by offering virtual teaching assistants and automated grading systems. Virtual teaching assistants, powered by AI, can handle routine administrative tasks, such as grading assignments and answering common questions, freeing up faculty members to focus on more complex aspects of teaching and research. Additionally, AI-driven content creation tools can assist educators in developing high-quality instructional materials, reducing the time and effort required to prepare for classes.

Virtual Reality (VR) offers another transformative potential for higher education, particularly in addressing the limitations of traditional classroom settings. VR technology provides immersive learning experiences that can simulate real-world scenarios, allowing students to gain practical skills and knowledge in a controlled environment. For example, VR can be used to create virtual laboratories for science experiments, enabling students to conduct experiments and explore complex concepts without the need for physical lab equipment. This is especially beneficial for institutions that lack the resources to maintain state-of-the-art laboratories. Additionally, VR can enhance experiential learning by enabling students to participate in virtual field trips, interact with historical artifacts, or practice skills in simulated environment. Such experiences can complement traditional classroom learning, providing students with a deeper understanding of the subject matter and enhancing their practical skills. In a diverse and vast country like India, where logistic constraints often limit access to real-world learning experiences, VR technology can offer opportunities to students to explore and engage with a wide range of topics that might otherwise be inaccessible. Furthermore, VR can address the issue of exposure to global perspectives by allowing students to virtually connect with peers and experts from around the world. Virtual exchange programs and international collaborations can be facilitated through VR, enabling students to engage in cross-cultural experiences and gain insights into global trends and practices. This exposure is crucial for preparing students for the increasingly interconnected and globalized job market. Immersive technologies like virtual and augmented reality can revolutionize higher education in India by addressing accessibility, affordability, and quality challenges (Rodriguez, 2023).

CONCLUSION

The Indian higher education is at a critical juncture, marked by both significant opportunities and substantial challenges. As India strives to position itself as a global leader in education and innovation, the evolution of its higher education system remains pivotal. However, the sector faces formidable challenges that must be addressed to fully realize its potential. One of the foremost prospects is the increasing enrollment in higher education institutions. With a large and youthful population, India is experiencing a surge in the number of students pursuing higher education. The government's initiatives play a very important role. The rise of technological advancements and digital platforms also offer a transformative potential for Indian higher education. Online learning, blended education models, and digital resources are making higher education more accessible and flexible, catering to a diverse student population across the country. There is great focus on vocational training and skill development to prepare students for a dynamic job market.

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In response to several challenges, India introduced several reforms and policies aimed at improving the higher education system. One of the most transformative policies in recent years has been the National Education Policy (NEP) 2020. The NEP aims to overhaul the system by promoting multidisciplinary education, flexibility in academic pathways, and stronger integration of vocational and skill-based learning. It also focus on research and innovation, encouraging the establishment of more research institutions and innovation hubs across the country. Traditional teaching methods often struggle to maintain student's interest, leading to disengagement and lower academic performance. AI driven tools can create interactive and gamified learning experiences that make education more engaging and enjoyable. The integration of AI, ML and VR has the potential to address several challenges in Indian higher education, transforming the sector and enhancing the overall educational experience. By providing personalized learning, improving access to resources, and facilitating immersive and interactive learning experiences, these technologies can bridge educational gaps and prepare students for the future.

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