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Usage and Impact of Artificial Intelligence in Russian and Indian Education System- The Future of Artificial Intelligence

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Abstract

Global And Regional Trends and Prospects for Using AI in The Education System of Russia and India The rapid evolution of artificial intelligence (AI) technologies has begun to transform fundamental aspects of human life, with education emerging as a critical domain of innovation. Globally, AI is being integrated into education systems to personalize learning, enhance administrative efficiency, support decision-making, and reduce inequalities in access to quality education. As countries strive to align with the demands of the Fourth Industrial Revolution, the deployment of AI in education is no longer a futuristic concept, but a practical imperative. This doctoral thesis investigates the global and regional trends in the integration of AI in education, with a specific focus on two strategically significant and culturally distinct countries: Russia and India. These nations offer compelling comparative case studies due to their shared ambitions of becoming knowledge economies, their vast and diverse populations, and their proactive policy initiatives in both digital transformation and AI deployment. While Russia emphasizes centralized technological development and research-led innovation, India exhibits a more decentralized and grassroots-oriented approach to edtech, driven by both public and private sectors. Globally, AI applications in education have shown promising developments in adaptive learning platforms, intelligent tutoring systems, predictive analytics, automated grading, and language processing tools. Countries such as the United States, China, and South Korea have already established frameworks and invested heavily in AI-driven educational ecosystems. In contrast, emerging economies are navigating the dual challenges of infrastructural limitations and the need for skilled human capital while attempting to leverage AI's transformative potential. In this context, the regional dynamics of AI adoption in education in Russia and India deserve critical scholarly attention. Russia has launched strategic initiatives like the "Digital Economy Program" and "Artificial Intelligence 2030" that outline specific goals for AI implementation across sectors, including education. Meanwhile, India's "National Education Policy 2020" and programs like "AI for All" aim to democratize access to AI tools and build capacity among students and educators alike. This thesis explores the intersection of policy, technology, pedagogy, and socio-economic conditions in shaping AI's role in the educational landscapes of Russia and India. Through a comparative lens, it aims to identify shared challenges, unique innovations, and prospective pathways for leveraging AI to improve learning outcomes, bridge digital divides, and prepare future-ready generations. By examining the global context, national strategies, institutional frameworks, and on-the-ground implementation efforts, this research contributes to the growing discourse on AI and educational transformation, offering policy-relevant insights and theoretical frameworks for effective AI integration in education systems in both developed and developing contexts. Artificial Intelligence is game changer and ten years from now every sector will be governed and controlled by AI. In a country like India "Computer Revolution" came in after 1985. At least that's what I thought but while watching an interview of legendary actress of India Rekha on BBC that was recorded in late 1970s in London I was amazed that She used the word "Computerized" that was an alien word back then in India. Nowadays, artificial intelligence innovations affect more and more areas and not only technical ones. This is largely due to the development of computing facilities. Performance capabilities of modern gadgets and smartphones today are many times above the processing power of the giant supercomputers of the 80-90s of the 20th century. Modern processors allow you to create artificial neuron networks, accumulate and process a large amount of data (Big Data), use the most complex mathematical and algorithmic methods and approaches. Today there are tremendous opportunities not only for theoretical research but also for the practical implementation of artificial intelligence systems in various spheres of human activity. Artificial intelligence technology entails a huge scope of activity, a vast field of knowledge. Since artificial intelligence is an interdisciplinary area of research, one needs knowledge in various fields, including new ones, to use it efficiently and more often as well as to participate in its development. Artificial intelligence (AI) refers to systems of technological and software solutions that, according to modern experts, are similar or superior to the result of human intellectual activity. As a result, some experimental problems are being solved - such as based on big data - when the researchers use speech recognition systems or voice synthesis, natural language processing, computer vision, and other technologies. I came directly in touch of studies and Researches of AI when back in 2021-22 I was researching for my four volume books series "Digital Security in Corporate World" that is available on Amazon.com. Companies like Facebook (Now Meta) are using the AI from as early as in 2005 for photo detection and identifying fake images or image location. Now what we see in advancement in field of AI is tail end of beginning phase of AI and it will still take 10-15 years for AI to fully occupy every sector. In one of my Research Papers that I presented at Tomsk National Research University back in 2015-16 on "Higher Education in India-The Glory of Past, The Challenges for Today and Road for Tomorrow", though, I advocated about traditional and ancient Education system of India but also supported technological advancements in field of Education in India. Russia too is a latecomer when it comes to Using AI in Education but soon it will be a front-runner like India. In this thesis the Scholar has discussed Global and Regional Trends in field of AI, the Studies and Researches in field of AI and how it's taking shape in Russia and India and it's impact of Russian and Indian Education system.

Keywords: Artificial Intelligence, Education System, Russia, India, Historical Perspective, Future of AI, AI in Russian and Indian Education System