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Critical Pedagogies and Artificial Intelligence: Teaching, Curriculum, and Sustainable Education Nitin Liladhar Rane, Reshma Amol Chaudhari, Jayesh Rane, 2025-07-10 Over the past few years artificial intelligence has emerged at an extremely high pace and it has transformed all the fields of knowledge that are being digitalized Education traditionally the foundation block of progress and development in society is now experiencing one of its most dramatic paradigm shifts ever Machine learning deep learning data driven pedagogies and intelligent learning environments have led to the new area where the personalization the sustainability and the globality converge It is against this critical backdrop that this book has come into being where the author has provided a holistic and evidence based discussion of how AI can transform the education sector in line with the Sustainable Development Goals SDGs and the changing demands of the higher learning institutions The chapters aggregated in this book indicate an interdisciplinary and futuristic attempt to curb both the possibilities as the challenges involved in integrating AI into modern curricula A survey of intelligent tutoring systems and ChatGPT mediated discourse analysis an IoT enabled learning ecosystem and adaptive sustainability oriented frameworks are some of the approaches to the growth of teaching assessment and design educational processes which each of the chapters presents a distinct perspective on how artificial intelligence can facilitate the design teaching and assessment process They all indicate that AI is not a frivolous technology it is an extraordinary disruptor that can substantially change the kind of knowledge learner acquire the types of learning experiences that teachers create and how schools can become innovative fair and be aware of the world Identifying AI enhanced education as more than an efficiency mechanism and a philosophical and pedagogical change is one of the recurrent themes in this book Educators are able to operate within the intelligent systems instead of the traditional sporadic one size fits all teaching They facilitate the adaptive learning course which reacts dynamically to student performance learning expectations cultural orientations as well as emotional prompts In conjunction with sustainability focused curricula the capabilities have a direct contribution to the development of competencies of environmental stewardship and social responsibility systems thinking and ethical technological citizenship The other value that can be made in this book is its attention to accessibility and inclusion As the chapters demonstrate multilingual translation systems the use of assistive technologies based on the principles of machine learning and AI mediated collaborative tools can overcome the obstacles that have previously alienated marginalized learners With AI diverse learning environments can be created by providing culturally responsive material custom guidance and instant feedback which represent the crucial aspect of the SDG 4 Quality Education goal Meanwhile this book cannot be seen as romanticizing technology Numerous of its chapters contain critical analysis of the privacy of data bias in algorithms quality assurance ethical design and the possibility to increase disparities when there is no proper governance of AI systems use These evaluations support the concept that the technological innovation should be thoroughly human centered Artificial intelligence

must not exist on the expense of human training but enhance it by adding complexity and multiplying the abilities of an instructor Between the excitement and the caution these chapters bring to educational practice are the practical information about the formation of responsible solutions in AI that would respect the principles of academic integrity autonomy as a learner and social justice Another main line running through the text is the issue of sustainability Regardless of it being resource optimization literature our curriculum design or mass education training workforce the book places AI within the context of the overall task of future education preparing students to face the complexity of an ever evolving world The systems and models mentioned here are not only technologically advancing but are also environmental friendly with the aim of minimizing wastages enhancing scalability and developing long term flexibility within the various institutions of learning Methodological connectivity is also abundant in this volume as it relies heavily on the systematic literature reviews empirical case studies conceptual frameworks and the cross disciplinary approaches to research The application of strict PRISMA based methodologies shows the commitment of the authors to the task of basing each observation on viable evidence Consequently the readers will discover a healthy dose of theoretical richness analytical acumen and practical advice However the book will appeal to a broad audience scholars attempting to learn more about AI enhanced pedagogy educators interested in adopting sophisticated technologies in teaching policymakers interested in the issues of equity and governance and technologists interested in figuring out how to develop systems that will make a meaningful contribution to sustainable development It is also addressed to the students the very people that will contribute to the future of the learning with the use of AI Since the development of artificial intelligence is a mighty beast that should not be underestimated the methods of comprehending education should also evolve These chapters are thought provoking reflective and open to the imagination of the future where technology and humanity can be seen collaborating to create more resilient inclusive and sustainable learning systems I sincerely hope that the book will be read and viewed as the source of fresh research inter sector cooperation and power of readers to generate the transformative potential of AI not only to innovate education but also to improve the lives of people everywhere **Resources in Education** ,1971-07 Lovejoy's College Guide ,1993

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