REIMAGINING INDIA 2047:

AI, Sustainability and Inclusive Growth

Amarpreet Kaur

Dr. Ankit Raj Singh

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AI, Sustainability and Inclusive Growth

India | Australia
www.bharatglobalpublications.com
info@bharatglobalpublications.com

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Edited By:

Amarpreet Kaur
Assistant Professor
Department of Business Studies
Panipat Institute of Engineering & Technology (PIET)
Samalkha (Panipat), India

Dr. Ankit Raj Singh
Assistant Professor
Department of Business Studies
Panipat Institute of Engineering & Technology (PIET)
Samalkha (Panipat), India

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First Impression: December 2025

Reimagining India 2047: AI, Sustainability and Inclusive Growth

ISBN: 978-93-49554-93-1

DOI: https://doi.org/10.5281/zenodo.18126855

Rs. 599/- ($80)

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Published by:

Bharat Global Publications

Preface

The year 2047 marks a profound milestone in India's journey—one hundred years since independence. It is more than a symbolic date; it is a moment of collective reflection and bold imagination. ***Reimagining India 2047: AI, Sustainability and Inclusive Growth*** is born out of the belief that India's future will not be shaped by chance, but by deliberate choices made today at the intersection of technology, ecology, and social equity.

India stands at a unique crossroads. It is home to one of the world's youngest populations, a rapidly expanding digital ecosystem, and an ancient civilizational wisdom that has long emphasized harmony between humans and nature. At the same time, the nation faces pressing challenges—climate change, inequality, urban stress, employment transitions, and access to quality education and healthcare. The coming decades will test India's ability to grow not just faster, but fairer and greener.

Artificial Intelligence is emerging as a defining force of the 21st century. For India, AI is not merely a tool for automation or efficiency; it is a potential catalyst for social transformation. From precision agriculture and climate-resilient infrastructure to personalized education, accessible healthcare, and transparent governance, AI can help bridge long-standing gaps—if guided by ethics, accountability, and inclusion. This book explores how India can harness AI in ways that empower citizens rather than marginalize them.

Sustainability forms the second pillar of this vision. India's development story cannot follow the carbon-intensive paths of the past. Ecological balance, renewable energy, circular economies, and sustainable cities are no longer optional ideals—they are necessities. Drawing from both indigenous knowledge systems and modern innovation, this book argues that sustainability must be embedded into every layer of policy, business, and community life.

At the heart of these transformations lies inclusive growth. Economic progress that leaves millions behind is neither stable nor just. India 2047 must be an India where opportunity is not determined by geography, gender, caste, or income; where technology amplifies human potential; and where growth translates into dignity, resilience, and shared prosperity.

This book does not claim to predict the future. Instead, it seeks to provoke thoughtful dialogue, present informed possibilities, and inspire action among policymakers, entrepreneurs, educators, researchers, and young citizens. Reimagining India is a collective endeavor—one that requires courage to question existing models and imagination to design better ones.

As India looks toward its centenary year, the choices we make today will define the nation we become. May this book serve as a contribution to that ongoing conversation—grounded in realism, guided by values, and driven by hope for an India that is intelligent, sustainable, and truly inclusive by 2047.

Warm regards

Amarpreet Kaur

Dr. Ankit Raj Singh

Acknowledgement

This book, ***Reimagining India 2047: AI, Sustainability and Inclusive Growth***, is the outcome of a deeply collaborative process that brought together diverse minds, disciplines, and institutions united by a shared commitment to envisioning India's future. The ideas presented in this volume have been shaped through dialogue, debate, research, and reflection, and I am profoundly grateful to all those who contributed to this journey.

We extend my foremost and heartfelt gratitude to all the chapter contributors. Their intellectual rigor, originality of thought, and dedication to their respective fields form the foundation of this book. Their intellectual rigor, originality of thought, and dedication to their respective fields form the foundation of this book. Each contributor brought a unique lens—spanning finance, sustainability, the use of artificial intelligence, tourism and hospitality, operations management, supply chain management, human resources, marketing, and related interdisciplinary areas—thereby enriching the narrative with depth, balance, and nuance. Their willingness to collaborate across disciplines and align individual scholarship with a collective vision made this volume possible.

We are deeply appreciative of the experts and practitioners from various sectors whose insights informed and strengthened the content of this book. Technologists, policymakers, economists, environmental scientists, social scientists, entrepreneurs, and development professionals generously shared their experiences and perspectives. Their real-world engagement ensured that the discussions move beyond theory to address practical challenges and actionable pathways for India's growth.

Our sincere thanks go to the academic readers and peer reviewers who devoted their time and expertise to critically engaging with the manuscript. Their thoughtful observations, rigorous evaluations, and constructive recommendations helped sharpen arguments, improve clarity, and enhance the overall scholarly quality of the book. Their contributions underscore the importance of academic dialogue in shaping meaningful and credible work.

We would like to express my deep appreciation to the editorial team for their unwavering commitment, professionalism, and attention to detail. From

conceptual alignment and structural coherence to language refinement and stylistic consistency, their meticulous efforts were central to transforming a multi-author manuscript into a cohesive and accessible volume. Their patience and collaborative spirit were invaluable throughout the editorial process.

We gratefully acknowledge the support of our institutional partners, whose encouragement and collaboration played a significant role in bringing this project to life. Their engagement reflects a shared belief in the importance of interdisciplinary research and forward-looking discourse for national development. The intellectual ecosystems fostered by these institutions provided an enabling environment for many of the ideas explored in this book.

Our sincere thanks also extend to the publication and production team for their dedication and expertise. Their careful coordination, design sensibility, and commitment to quality ensured that the manuscript was translated into a finished book with clarity, precision, and aesthetic integrity. Their efforts made it possible for this work to reach a wider audience in its intended form.

On a personal note, we are deeply grateful to my family, friends, and colleagues for their constant encouragement, patience, and understanding throughout this demanding yet rewarding journey. Their support provided both motivation and balance during the long process of research, coordination, and writing.

Finally, we thank the readers—students, researchers, policymakers, educators, practitioners, and engaged citizens—who choose to engage with this book. It is our hope that this work stimulates reflection, dialogue, and informed action, and contributes in some measure to shaping an India that is technologically empowered, environmentally responsible, and socially inclusive as it approaches its centenary year in 2047.

With heartfelt appreciation,

Amarpreet Kaur

Dr. Ankit Raj Singh

About the Editors

Amarpreet Kaur is an accomplished academic and researcher with over six years of experience in higher education. She is currently associated with the Panipat Institute of Engineering and Technology (PIET), Haryana, as an Assistant Professor. where she actively contributes to teaching, research, and academic development. Her academic interests lie in the areas of Finance and Marketing, with a strong focus on research-driven inquiry and contemporary issues in management studies.

She has made significant contributions to the research domain through publications in peer-reviewed journals and presentations at national and international conferences. Her scholarly work demonstrates a commitment to academic rigor, analytical depth, and relevance, contributing meaningfully to the body of knowledge in management and business studies.

Amarpreet Kaur has also held important academic and administrative responsibilities. She has previously served as an Academic Coordinator, contributing to curriculum planning, academic scheduling, and coordination of institutional academic activities. In addition, she has been actively involved in Enterprise Resource Planning (ERP) implementation and academic process management, supporting efficient

administration and quality assurance.

She is a member of the Internal Quality Assurance Cell (IQAC) and the Summer Internship Committee, where she contributes to institutional quality enhancement, industry interface, and experiential learning initiatives.

As the editor of this book, she has played a key role in conceptualizing the theme, coordinating scholarly contributions, and ensuring academic coherence, consistency, and high editorial standards across the volume. Her editorial work reflects a strong commitment to advancing research-oriented academic discourse and scholarly excellence.

Dr. Ankit Raj Singh is an esteemed academician, researcher, and innovator with over a decade of experience across academia, industry, and research. He currently serves as Assistant Professor of Management at the Panipat Institute of Engineering and Technology (PIET), Samalkha (Panipat), where he teaches courses in Marketing, Brand Management, Corporate Social Responsibility, and International Trade.

He earned his Doctorate in Management from Sharda University, with a research focus on wellness tourism and consumer behaviour. Dr. Singh has published extensively in Scopus-indexed, ABDC-listed, and UGC Care journals, and has presented his work at numerous national and international academic conferences. He has also served as editor of several academic volumes in business and management studies.

With over six years of industry experience in the travel sector, Dr. Singh has contributed to corporate training programs for organizations like Hindustan Coca-Cola Pvt. Ltd. and Tata Power Solar India Ltd. An avid traveler, he has explored all 24 Indian states and 7 Union Territories, which informs his deep understanding of customer behaviour and service dynamics.

A staunch advocate for innovation and Intellectual Property Rights (IPR), Dr. Singh holds multiple design patents and copyrights granted by the Government of India. His

research and teaching focus on wellness tourism, consumer behaviour, digital marketing, organizational change, and AI in management. He is actively guiding PhD scholars and postgraduate students in research and innovation projects.

Dr. Singh also holds several key leadership roles at PIET, serving as Chairman of the Placement & Summer Training Committee, and as a member of both the Research & Development Committee and the Internal Quality Assurance Cell (IQAC). He is also deeply engaged in community development through Rotary International's CSR initiatives, including education, health, and environmental programs. His exceptional contributions have earned him recognition in social service activities, along with commendable service in Delhi Civil Defence.

Through his academic leadership, research innovation, and social commitment, Dr. Singh continues to shape the future of business management education across India and beyond.

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About the Editors

Amarpreet Kaur
Assistant Professor
Department of Business Studies
Panipat Institute of Engineering & Technology (PIET)
Samalkha (Panipat), India

Dr. Ankit Raj Singh
Assistant Professor
Department of Business Studies
Panipat Institute of Engineering & Technology (PIET)
Samalkha (Panipat), India

About The Book

Reimagining India 2047: AI, Sustainability and Inclusive Growth offers a forward-looking and interdisciplinary exploration of India's transformative journey toward its centenary of independence. Authored by **Amarpreet Kaur** and **Dr. Ankit Raj Singh**, the book examines how emerging technologies, particularly Artificial Intelligence, can act as a catalyst for sustainable development and inclusive economic growth in a rapidly evolving global landscape.

The book brings together perspectives from technology, economics, public policy, and environmental studies to present a holistic vision of India's future. It critically analyzes the opportunities and challenges associated with AI-driven innovation across key sectors such as agriculture, healthcare, education, manufacturing, governance, and urban development. Emphasis is placed on leveraging digital technologies not merely for economic expansion, but for creating equitable outcomes that benefit marginalized and underserved communities.

A strong focus on sustainability runs throughout the book, highlighting the need to balance technological progress with environmental responsibility. The authors discuss climate resilience, renewable energy transitions, smart infrastructure, and responsible resource management as essential pillars for long-term national development. The integration of ethical AI, data governance, and inclusive policy frameworks is presented as crucial for ensuring that technological advancement aligns with social justice and democratic values.

Designed for academics, policymakers, researchers, and students, *Reimagining India 2047* serves as both an analytical reference and a visionary roadmap. It encourages informed dialogue and strategic thinking on how India can harness innovation to build a future that is technologically advanced, environmentally sustainable, and socially inclusive.

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₹ 599/- inclusive of all taxes