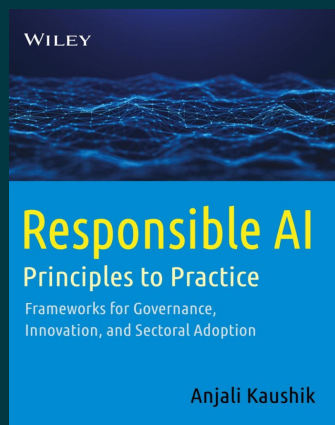




Responsible AI: Principles to Practice

By Anjali Kaushik

Paperback

9789373327631

₹999.00

Pages: 400

Description

"Responsible AI: Principles to Practice – Frameworks for Governance, Innovation, and Sectoral Adoption" by Anjali Kaushik is a definitive guide for navigating the complex landscape of ethical, legal, and operational challenges in Artificial Intelligence. Drawing on years of research, teaching, and policy consultation, the book bridges the gap between high-level ethical principles and practical implementation. It is organized into four parts:

1. Global Frameworks and Ethical AI: Lays the foundation with international principles, laws, and governance models.
2. Technical and Socio-Ethical Dimensions: Explores bias, explainability, privacy, machine unlearning, and synthetic data.
3. Operationalizing Responsible AI: Provides actionable strategies for embedding Responsible AI into organizational processes, including governance, risk management, and sustainability.
4. Sectoral Frameworks and Use Cases: Demonstrates application across finance, healthcare, public services, media, and education, with real-world case studies and best practices.

The book concludes with practical annexures—self-assessment checklists, coding exercises, and risk repository templates—making it an indispensable resource for anyone seeking to ensure that AI systems are not only innovative and efficient, but also fair, transparent, accountable, and aligned with human values.

Salient Features:

1. Comprehensive Frameworks: The book systematically covers global, technical, ethical, and sectoral frameworks for Responsible AI, including the EU AI Act, NIST AI Risk Management Framework, OECD AI Principles, UNESCO guidelines, and India's DPDP Act.
2. From Principles to Practice: Moves beyond high-level ethics to offer actionable strategies for operationalizing Responsible AI in organizations, including governance structures, risk registers, and lifecycle management.
3. Technical & Socio-Ethical Dimensions: Deep dives into bias, fairness, explainability (XAI), privacy, data protection, machine unlearning, synthetic data, and copyright/IPR challenges in generative AI.
4. Sectoral Use Cases: Provides real-world frameworks and case studies across finance, healthcare, public services, media, and education, illustrating practical challenges and solutions.
5. AI Governance Architecture: Introduces a layered governance model—external requirements, organizational operationalization, AI system lifecycle, and assurance/monitoring—for embedding Responsible AI into business and public sector operations.
6. Risk Management Tools: Offers detailed checklists, risk registers, and auditing templates (aligned with ISO/IEC 42001, NIST, EU AI Act) for developers and deployers to ensure compliance, fairness, and accountability.
7. Legal and Regulatory Insights: Explains the evolving landscape of AI laws (EU, US, China, India), liability, data localization, and sector-specific compliance.
8. Practical Toolkits: Includes hands-on exercises for explainability (LIME, SHAP, PDP), self-assessment checklists, and

guidance on using OWASP for AI risk management.

9. Focus on Sustainability: Addresses the environmental impact of AI, advocating for Green AI practices and sustainable innovation.
10. Forward-Looking: Discusses emerging topics like agentic AI, digital twins, regulatory sandboxes, and the future of trustworthy AI societies.

About the Author

Anjali Kaushik

Dr. Anjali Kaushik is a Professor at the Management Development Institute (MDI), Gurgaon, which is one of the top business schools in India. She has served as Dean of Strategic Initiatives, where she started the Online PGDM program, led ERP deployment, and significantly expanded global collaborations. She has also held academic positions as IT Head and Area Chair. Dr. Kaushik has contributed as an expert on strategic planning and policy making in e-governance and cybersecurity with the Government of India. She has authored eight books and published more than 35 papers in peer-reviewed international journals.).

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Glossary

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