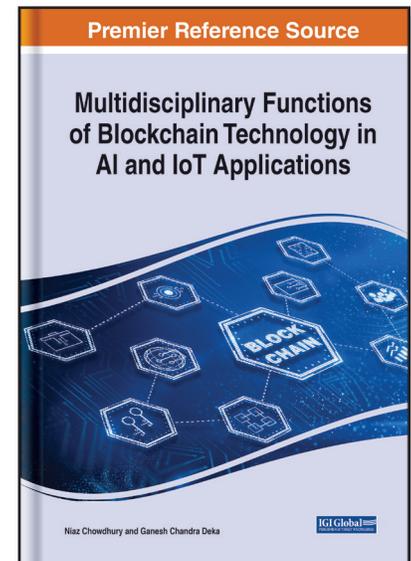# Multidisciplinary Functions of Blockchain Technology in AI and IoT Applications

Part of the Advances in Data Mining and Database Management Book Series

Niaz Chowdhury (The Open University, Milton Keynes, UK) and Ganesh Deka (Ministry of Skill Development and Entrepreneurship, New Delhi, India)

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Multidisciplinary Functions of Blockchain Technology in AI and IoT Applications

Niaz Chowdhury and Ganesh Chandra Deka

Description:

Blockchain technology allows value exchange without the need for a central authority and ensures trust powered by its decentralized architecture. As such, the growing use of the internet of things (IoT) and the rise of artificial intelligence (AI) are to be benefited immensely by this technology that can offer devices and applications data security, decentralization, accountability, and reliable authentication. Bringing together blockchain technology, AI, and IoT can allow these tools to complement the strengths and weaknesses of the others and make systems more efficient.

Multidisciplinary Functions of Blockchain Technology in AI and IoT Applications deliberates upon prospects of blockchain technology using AI and IoT devices in various application domains. This book contains a comprehensive collection of chapters on machine learning, IoT, and AI in areas that include security issues of IoT, farming, supply chain management, predictive analytics, and natural languages processing. While highlighting these areas, the book is ideally intended for IT industry professionals, students of computer science and software engineering, computer scientists, practitioners, stakeholders, researchers, and academicians interested in updated and advanced research surrounding the functions of blockchain technology in AI and IoT applications across diverse fields of research.

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Topics Covered:

- Artificial Intelligence (AI)
- Blockchain Technology
- Data Analysis
- Internet of Things (IoT)
- Machine Learning
- Natural Languages Processing
- Predictive Analytics
- Risk Analysis
- Supply Chain Management
- Virtual Trade Systems

Subject: Computer Science and Information Technology

Classification: Edited Reference

Readership Level: Advanced-Academic Level (Research Recommended)

Research Suitable for: Advanced Undergraduate Students; Graduate Students; Researchers; Academicians; Professionals; Practitioners

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