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Descrizione fisica	1 online resource (443 pages)
Collana	Machine Learning in Biomedical Science and Healthcare Informatics Series
Altri autori (Persone)	KhandayAkib AurangzebKhursheed SharmaSudhir Kumar NandParma
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Sommario/riassunto	This book is an essential resource on the impact of AI in medical systems, helping readers stay ahead in the modern era with cutting-edge solutions, knowledge, and real-world case studies. Wellness Management Powered by AI Technologies explores the intricate ways machine learning and the Internet of Things (IoT) have been woven into the fabric of healthcare solutions. From smart wearable devices tracking vital signs in real time to ML-driven diagnostic tools providing accurate predictions, readers will gain insights into how these technologies continually reshape healthcare. The book begins by examining the fundamental principles of machine learning and IoT, providing readers with a solid understanding of the underlying concepts. Through clear and concise explanations, readers will grasp

the complexities of the algorithms that power predictive analytics, disease detection, and personalized treatment recommendations. In parallel, they will uncover the role of IoT devices in collecting data that fuels these intelligent systems, bridging the gap between patients and practitioners. In the following chapters, readers will delve into real-world case studies and success stories that illustrate the tangible benefits of this dynamic duo. This book is not merely a technical exposition; it serves as a roadmap for healthcare professionals and anyone invested in the future of healthcare. Readers will find the book:

- Explores how AI is transforming diagnostics, treatments, and healthcare delivery, offering cutting-edge solutions for modern healthcare challenges;
- Provides practical knowledge on implementing AI in healthcare settings, enhancing efficiency and patient outcomes;
- Offers authoritative insights into current AI trends and future developments in healthcare;
- Features real-world case studies and examples showcasing successful AI integrations in various medical fields.

Audience This book is a valuable resource for researchers, industry professionals, and engineers from diverse fields such as computer science, artificial intelligence, electronics and electrical engineering, healthcare management, and policymakers.
