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Nota di contenuto

Introduction -- Part I Foundations of AI: Concepts and Frameworks for Cybersecurity and Digital Forensics -- The Evolution of Artificial Intelligence and Machine Learning -- Technical Foundations of Cybersecurity -- Digital Forensics: Tools, Techniques, and Methodologies -- Integrating AI/ML with Cybersecurity and Digital Forensics -- Part II AI in Action: Real-World Strategies for Cybersecurity and Digital Forensics -- AI and ML Frontier Technologies for Digital Forensic Applications -- Enhancing Cyber Security with Machine Learning -- Future of AI-Driven Digital Forensic -- Conclusion.

Sommario/riassunto

This book provides a comprehensive exploration of how Artificial Intelligence (AI) is being applied in the fields of cyber security and digital forensics. The book delves into the cutting-edge techniques that are reshaping the way we protect and investigate digital information. From identifying cyber threats in real-time to uncovering hidden evidence in complex digital cases, this book offers practical insights and real-world examples. Whether you're a professional in the field or simply interested in understanding how AI is revolutionizing digital security, this book will guide you through the latest advancements and their implications for the future. Includes application of AI in solving real cyber security and digital forensics challenges, offering tangible examples; Shows how AI methods from machine / deep learning to NLP can be used for cyber defenses and in forensic investigations; Explores emerging trends and future possibilities, helping readers stay ahead of the curve in a rapidly evolving field.
