

1. Record Nr.	UNINA9910874662003321
Autore	Palle Ranadeep Reddy
Titolo	Privacy in the Age of Innovation : AI Solutions for Information Security / / by Ranadeep Reddy Palle, Krishna Chaitanya Rao Kathala
Pubbl/distr/stampa	Berkeley, CA : , : Apress : , : Imprint : Apress, , 2024
ISBN	979-88-6880-461-8
Edizione	[1st ed. 2024.]
Descrizione fisica	1 online resource (205 pages)
Disciplina	025.52
Soggetti	Data privacy Artificial intelligence
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Nota di bibliografia	Includes bibliographical references and index.
Nota di contenuto	1. INTRODUCTION -- 2. UNDERSTANDING AI AND ETHICS -- 3. INFORMATION SECURITY AND DATA PRIVACY LANDSCAPE -- 4. AI FOR THREAT DETECTION AND PREVENTION -- 5. PRIVACY-PRESERVING AI TECHNIQUES -- 6. DATA PROTECTION AND COMPLIANCE -- 7. SECURING AI MODELS -- 8. CASE STUDIES -- 9. AI IN DATA PRIVACY AND ETHICS -- 10. AI AND DATA SECURITY -- 11. BALANCE BETWEEN SECURITY AND PRIVACY -- 12. BEST PRACTICES AND RECOMMENDATIONS -- 13. FUTURE TRENDS AND CHALLENGES.
Sommario/riassunto	This book will help you comprehend the impact of artificial intelligence (AI) on information security, data privacy, and data security. The book starts by explaining the basics and setting the goals for a complete understanding of how AI, Information Security, Data Privacy, and Data Security all connect. Then, it gives you important information about the basics of AI, machine learning, and deep learning in simple terms. It also talks about the ethics of using AI in privacy and security, making sure you understand the power and responsibility that come with AI. Next, it takes you through the complex world of information security and data privacy. It covers everything from the current state of security to how AI can detect threats and protect privacy. Additionally, it delves into ethical considerations to ensure the responsible use of AI in managing data privacy. Later chapters discuss strategies and future trends in using AI for data security, finding the right balance between security and privacy, and giving useful advice for organizations. In the

end, this book examines the current landscape and foresees the future, underscoring the vital importance of maintaining a balance between innovation and privacy in AI-powered security. What you will learn: How AI is being used to detect and prevent cyberattacks in real-time What are the AI-powered techniques for anonymizing and de-identifying data, What are the latest advancements in AI-powered privacy-enhancing technologies (PETs) How to find the right balance between security and privacy.
