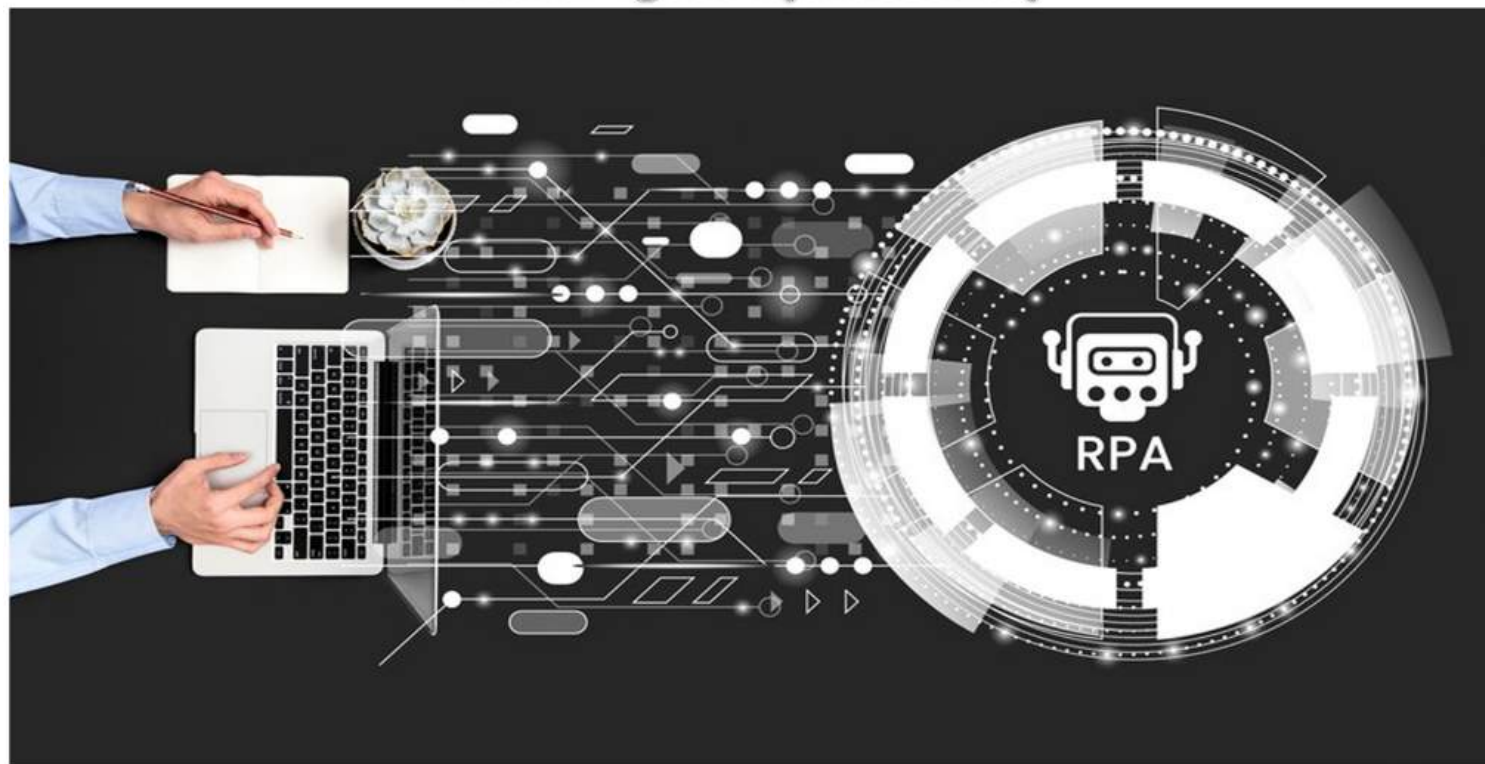


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*To be published with ISBN under IIP International publishers, USA and India*  
**Intelligent Shields: Artificial Intelligence and Machine  
Learning for Cybersecurity**



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## Call for Chapters

# Intelligent Shields: Artificial Intelligence and Machine Learning for Cybersecurity

### Aims and Scope:

The book "Intelligent Shields: Artificial Intelligence and Machine Learning for Cybersecurity" aims to explore the transformative role of AI and ML in modern cybersecurity systems. As cyber threats become more advanced and dynamic, traditional defense mechanisms are no longer sufficient. This book provides a comprehensive understanding of how intelligent algorithms can predict, detect, and neutralize threats in real time. It serves as a guide for researchers, professionals, and students to understand the synergy between AI/ML and cybersecurity, offering both foundational concepts and real-world applications. The scope of this book spans theoretical foundations, implementation strategies, and emerging trends in AI-driven cyber defense. It includes detailed discussions on intrusion detection systems, threat intelligence, anomaly detection, malware classification, and secure AI development practices. The book also addresses ethical challenges, adversarial attacks on AI models, and the evolving role of AI in securing IoT, cloud infrastructure, and critical systems.

### List of Topics :

- Chapter-1 Machine Learning Algorithms in Cybersecurity
- Chapter-2 AI-based Intrusion Detection and Prevention Systems
- Chapter-3 Deep Learning for Malware Detection and Classification
- Chapter-4 Threat Intelligence and Predictive Analytics
- Chapter-5 Adversarial Machine Learning and Model Robustness
- Chapter-6 AI in Cloud and IoT Security
- Chapter-7 Behavioral Biometrics and Identity Verification
- Chapter-8 Secure AI Development and Deployment Practices
- Chapter-9 Ethical and Legal Implications of AI in Cybersecurity
- Chapter-10 Case Studies and Industry Applications of AI for Cyber Defense

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