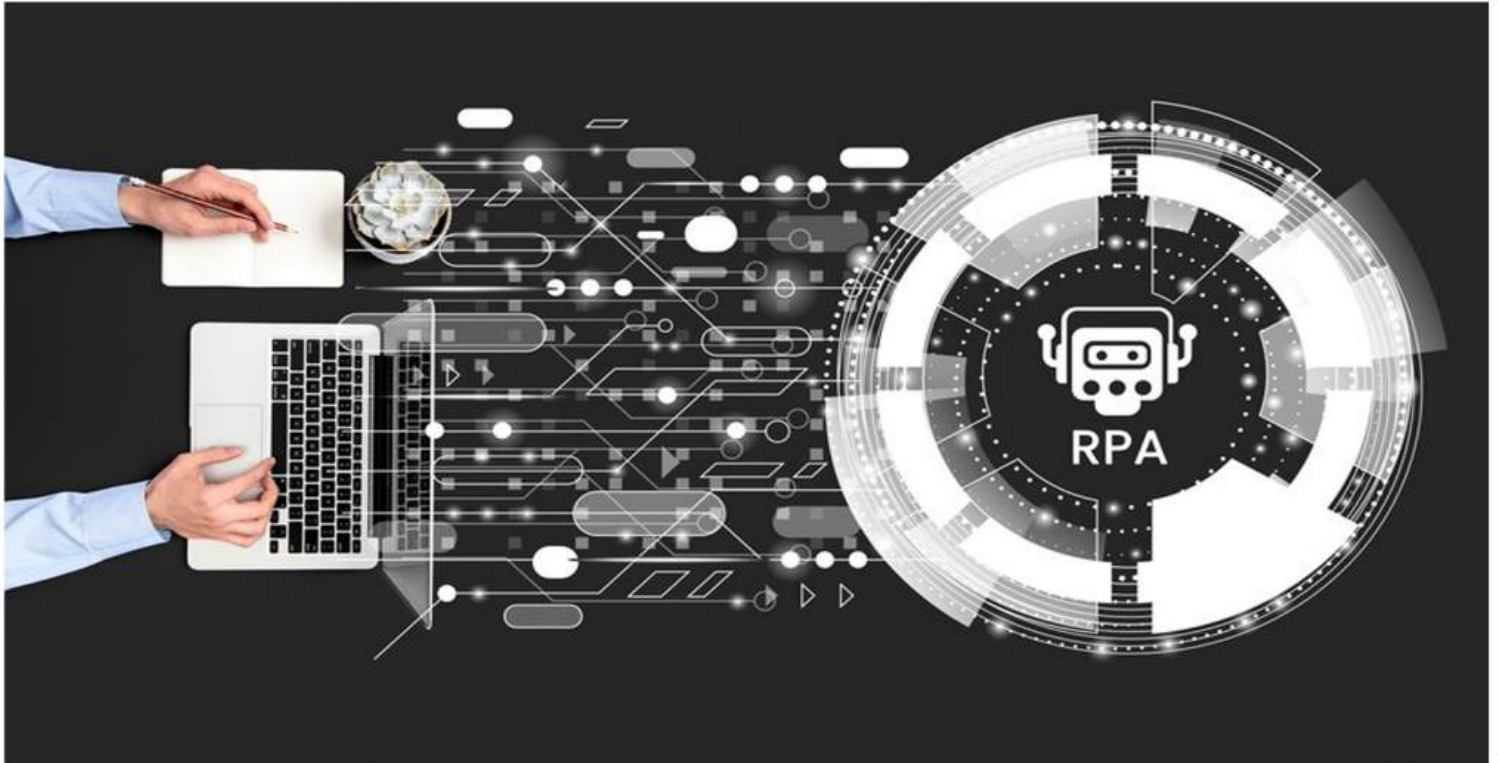


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**Enhancing Cybersecurity with Machine Learning: A Data-Driven
Approach to Detect and Mitigate Threats**



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Call for Chapters

Enhancing Cybersecurity with Machine Learning: A Data-Driven Approach to Detect and Mitigate Threats

Aims and Scope:

This chapter aims to provide a comprehensive understanding of how machine learning can enhance cybersecurity in an era of ever-evolving cyber threats. Traditional security measures often fall short in detecting and mitigating sophisticated attacks. Machine learning offers a powerful alternative by enabling organizations to process vast amounts of data, uncover hidden patterns, and anticipate potential threats. This chapter explores how machine learning can improve key aspects of cybersecurity, such as threat detection, incident response, and risk management. The chapter will delve into the wide range of machine learning techniques and algorithms employed in cybersecurity, including supervised and unsupervised learning, deep learning, and anomaly detection. It will cover foundational concepts and advanced methodologies, offering insights into the application of these techniques in detecting threats, responding to incidents, and identifying anomalies in real-time. Additionally, this chapter will address the challenges and limitations of using machine learning in cybersecurity, while also discussing emerging trends and future directions in the field. The overarching goal is to highlight the transformative potential of machine learning in building more resilient cybersecurity systems.

List of Topics :

- Chapter 1: Introduction to Cybersecurity and Machine Learning
- Chapter 2: Fundamentals of Machine Learning for Cybersecurity
- Chapter 3: Threat Detection using Machine Learning
- Chapter 4: Anomaly Detection and Incident Response
- Chapter 5: Network Traffic Analysis using Machine Learning
- Chapter 6: Endpoint Security using Machine Learning
- Chapter 7: Machine Learning for Cloud Security
- Chapter 8: Deep Learning for Cybersecurity
- Chapter 9: Challenges and Limitations of Machine Learning in Cybersecurity
- Chapter 10: Future Directions and Best Practices for Machine Learning in Cybersecurity

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