

Intrusion Detection Systems

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Product Description

Intrusion Detection Systems "INTRUSION DETECTION SYSTEMS" offers a comprehensive and vital resource for navigating the rapidly evolving domain of cybersecurity. Written in an academic yet accessible tone, this book provides a thorough introduction to Intrusion Detection Systems (IDS), exploring their historical evolution, foundational concepts, and critical role in protecting modern digital environments. The core purpose of this text is to bridge the gap between theoretical knowledge and real-world application, equipping readers with the expertise to implement robust security strategies against increasingly sophisticated threats. The book highlights the transformative impact of Machine Learning (ML) and Artificial Intelligence (AI) on IDS, detailing deep learning approaches, ML models for anomaly detection, and feature engineering techniques. It goes beyond traditional methods to address the unique challenges of securing emerging technologies such as the Internet of Things (IoT), cloud-based networks, and blockchain. Furthermore, it delves into advanced techniques like fuzzy logic, genetic algorithms, hybrid models, and real-time IDS using big data analytics. This indispensable guide is meticulously structured with five units and includes detailed case studies, making it an essential text for its target audience: students seeking foundational knowledge, professionals looking to upgrade their deployment strategies, and researchers exploring open challenges like adversarial ML attacks and autonomous IDS development. It serves as a definitive roadmap for enhancing network resilience against the ever-changing cyber threat landscape. **Salient**

Features:

- **Core IDS Fundamentals:** Explore the history, evolution, and foundational principles of IDS. Compare signature-based, anomaly-based, and hybrid models, and understand key evaluation metrics like TPR and FPR.
- **AI-Driven Detection:** Master the use of Machine Learning and Deep Learning, including CNNs and LSTMs, to enhance anomaly detection capabilities and prepare large-scale datasets for modern IDS.
- **Securing New Frontiers:** Learn to design and implement specialized IDS for emerging technologies like IoT, cloud computing, and blockchain. Focus on lightweight solutions for resource-constrained mobile and edge environments.
- **Advanced Threat Mitigation:** Investigate cutting-edge techniques such as fuzzy logic and genetic algorithms in IDS. Understand hybrid models, distributed architectures, and real-time big data analytics for large-scale networks.
- **Future**



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- Introduction to Intrusion Detection Systems
 - Machine Learning and Artificial Intelligence In IDS
 - IDS for Emerging Technologies
 - Advanced Techniques and Hybrid Models
 - Future Trends and Research Challenges
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Author

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AI Enhanced Cyber Threat

Author :	R. Shalini
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Product Description

AI Enhanced Cyber Threat In the rapidly evolving digital landscape. Artificial intelligence (AI) presents a double-edged sword. While it serves as the foundation for next-generation defense systems. It is simultaneously being weaponized by adversaries to create sophisticated, adaptive, and highly evasive cyber threats. AI Enhanced cyber threats offers a vital, comprehensive analysis of this critical intersection. This book meticulously explores the emerging methodologies where AI and Machine Learning are used to launch automated spear-phishing campaigns, craft polymorphic malware, and bypass conventional security measures. Crucially, it provides IT professionals, security analysts, and researchers with actionable, cutting-edge strategies to counter these advanced threats. From implementing adversarial training to fortify defense models to establishing secure deployment practices in complex IoT and cloud environments, this text is the definitive guide to building an intelligent, resilient, and adaptive cybersecurity posture in the AI age. **Salient Features:**

- **Comprehensive threat analysis:** In-depth exploration of how adversaries utilize AI to automate attacks, enhance phishing efficacy, and deploy adaptive malware.
- **Advanced Mitigation Strategies:** Detailed coverage of AI-powered defense mechanisms, including Adversarial training to improve model resilience against attacks.
- **Real-time security implementation:** Focus on deploying AI-powered anomaly detection systems for continuous, real-time monitoring ongoing compliance in modern infrastructure.
- **Secure IoT and cloud deployment:** best practices for secure configuration of cloud services, network segmentation, and ensuring ongoing compliance in modern infrastructure.
- **Data security fundamentals:** Insights on establishing effective patch management processes and conduction regular security audits and risk assessments.
- **Ideal for:** undergraduate and postgraduate students, researchers, cybersecurity professionals, and network administrators seeking to master the principles of AI-driven security.



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Author

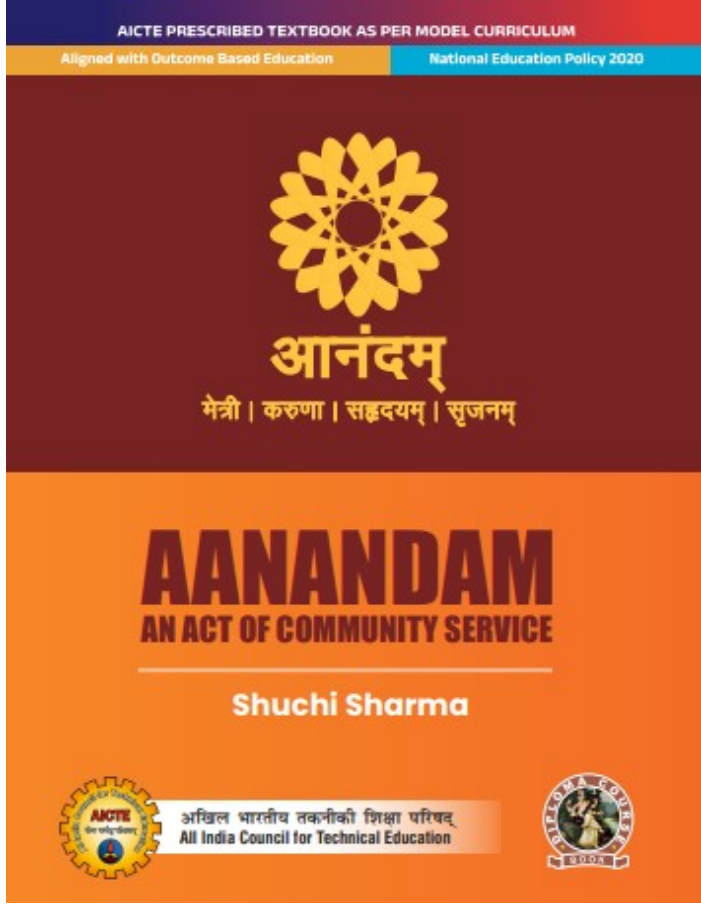
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Aanandam An Act of Community Service

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Product Description

Aanandam An Act of Community Service Salient Feature:

- It is a guide book for the students and the mentors of the course.
- The book discusses about how the education is incomplete without evolving the goodness hidden inside an individual.
- It guides the students about how to interact with the community and understand the problems of the people.
- It explains about how to select a community problem and make it a subject for the group project.
- How to write the project report, has been explained well with examples.
- The importance of volunteerism, environmental sustainability and community service has been discussed at length.
- The students are most important part of society. It is expected from the education system that it produces socially responsible and empathetic young leaders. To fulfill this objective a novel idea of Aanandam diary has been introduced. It gives an opportunity to peep into the inner world and let love and kindness flow.
- This book will certainly help in understanding the course and implementing it in true spirit to bring forth empathetic, creative and happy young leaders.



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- How to do a group project work
- Aanandam: A Roadmap for the future

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