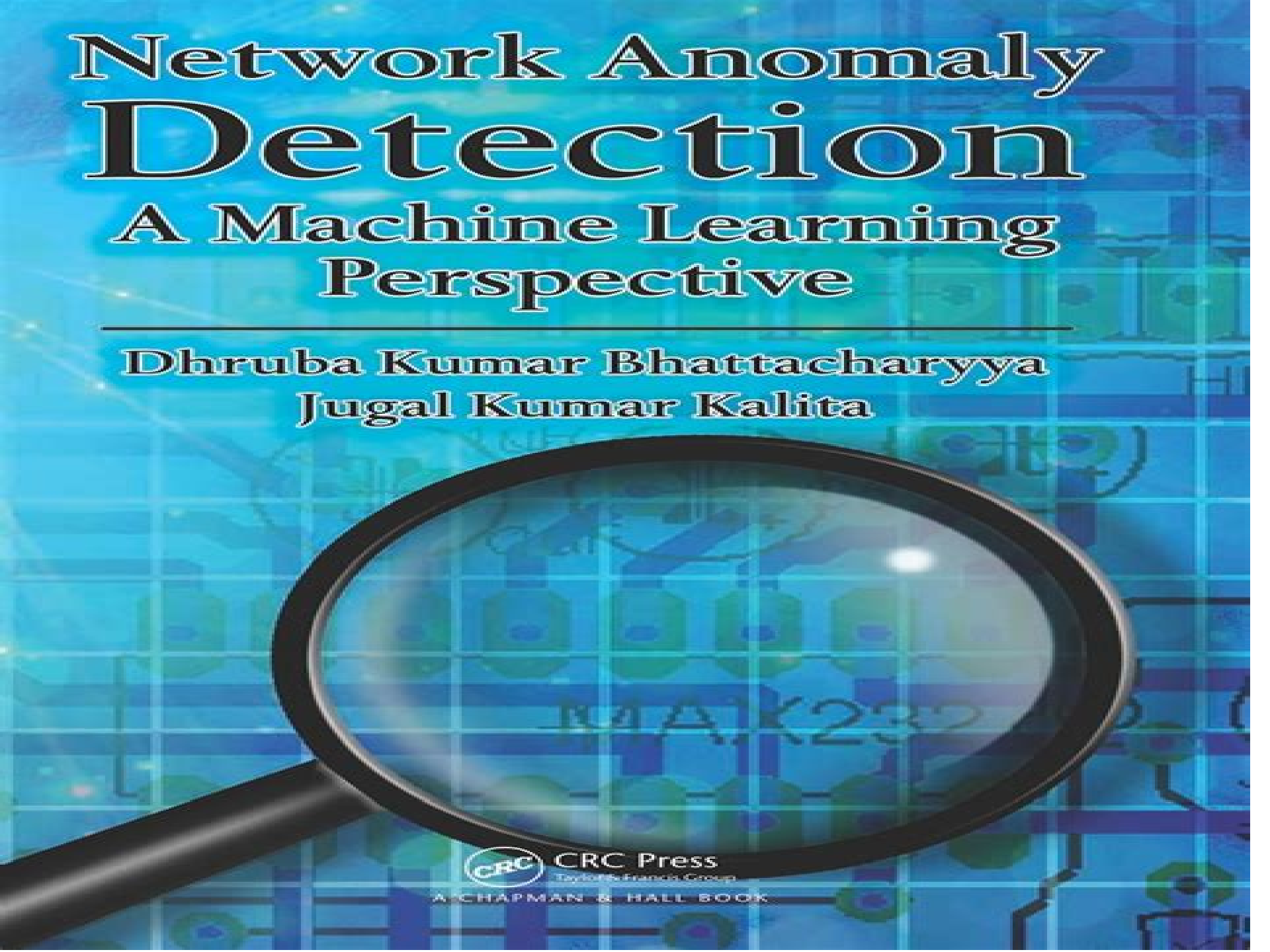
Network Anomaly Detection

A Machine Learning Perspective

Dhruba Kumar Bhattacharyya
Jugal Kumar Kalita



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Network Anomaly Detection A Machine Learning Perspective

Dhruba Kumar Bhattacharyya,Jugal Kumar Kalita

Network Anomaly Detection A Machine Learning Perspective:

Network Anomaly Detection Dhruba Kumar Bhattacharyya,Jugal Kumar Kalita,2013-06-18 With the rapid rise in the ubiquity and sophistication of Internet technology and the accompanying growth in the number of network attacks network intrusion detection has become increasingly important Anomaly based network intrusion detection refers to finding exceptional or nonconforming patterns in network traffic data compared to normal behavior Finding these anomalies has extensive applications in areas such as cyber security credit card and insurance fraud detection and military surveillance for enemy activities Network Anomaly Detection A Machine Learning Perspective presents machine learning techniques in depth to help you more effectively detect and counter network intrusion In this book you ll learn about Network anomalies and vulnerabilities at various layers The pros and cons of various machine learning techniques and algorithms A taxonomy of attacks based on their characteristics and behavior Feature selection algorithms How to assess the accuracy performance completeness timeliness stability interoperability reliability and other dynamic aspects of a network anomaly detection system Practical tools for launching attacks capturing packet or flow traffic extracting features detecting attacks and evaluating detection performance Important unresolved issues and research challenges that need to be overcome to provide better protection for networks Examining numerous attacks in detail the authors look at the tools that intruders use and show how to use this knowledge to protect networks The book also provides material for hands on development so that you can code on a testbed to implement detection methods toward the development of your own intrusion detection system It offers a thorough introduction to the state of the art in network anomaly detection using machine learning approaches and systems **Network Anomaly Detection** Jugal Kalita,2013 With the rapid rise in the ubiquity and sophistication of Internet technology and the accompanying growth in the number of network attacks network intrusion detection has become increasingly important Anomaly based network intrusion detection refers to finding exceptional or nonconforming patterns in network traffic data compared to normal behavior Finding these anomalies has extensive applications in areas such as cyber security credit card and insurance fraud detection and military surveillance for enemy activities Network Anomaly Detection A Machine Learning Perspective presents machine learning techniques in depth to help you more effectively detect and counter network intrusion In this book you ll learn about Network anomalies and vulnerabilities at various layers The pros and cons of various machine learning techniques and algorithms A taxonomy of attacks based on their characteristics and behavior Feature selection algorithms How to assess the accuracy performance completeness timeliness stability interoperability reliability and other dynamic aspects of a network anomaly detection system Practical tools for launching attacks capturing packet or flow traffic extracting features detecting attacks and evaluating detection performance Important unresolved issues and research challenges that need to be overcome to provide better protection for networks Examining numerous attacks in detail the authors look at the tools that intruders use and show how to use this knowledge to

protect networks The book also provides material for hands on development so that you can code on a testbed to implement detection methods toward the development of your own intrusion detection system It offers a thorough introduction to the state of the art in network anomaly detection using machine learning approaches and systems **Network Anomaly Detection** Dhruba Kumar Bhattacharyya,Jugal Kumar Kalita,2013-06-18 With the rapid rise in the ubiquity and sophistication of Internet technology and the accompanying growth in the number of network attacks network intrusion detection has become increasingly important Anomaly based network intrusion detection refers to finding exceptional or nonconforming patterns in network traffic data compared to normal behavi Algorithms for Next Generation Networks Graham Cormode,Marina Thottan,2010-02-06 Data networking now plays a major role in everyday life and new applications continue to appear at a blinding pace Yet we still do not have a sound foundation for designing evaluating and managing these networks This book covers topics at the intersection of algorithms and networking It builds a complete picture of the current state of research on Next Generation Networks and the challenges for the years ahead Particular focus is given to evolving research initiatives and the architecture they propose and implications for networking Topics Network design and provisioning hardware issues layer 3 algorithms and MPLS BGP and Inter AS routing packet processing for routing security and network management load balancing oblivious routing and stochastic algorithms network coding for multicast overlay routing for P2P networking and content delivery This timely volume will be of interest to a broad readership from graduate students to researchers looking to survey recent research its open questions *IoT and Machine Learning for Smart Applications* G. Vennira Selvi,T. Ganesh Kumar,M. Prasad,Raju Hajare,Priti Rishi,2025-03-06 This book provides an illustration of the various methods and structures that are utilized in machine learning to make use of data that is generated by IoT devices Numerous industries utilize machine learning specifically machine learning as a service MLaaS to realize IoT to its full potential On the application of machine learning to smart IoT applications it becomes easier to observe methodically analyze and process a large amount of data to be used in various fields Features Explains the current methods and algorithms used in machine learning and IoT knowledge discovery for smart applications Covers machine learning approaches that address the difficulties posed by IoT generated data for smart applications Describes how various methods are used to extract higher level information from IoT generated data Presents the latest technologies and research findings on IoT for smart applications Focuses on how machine learning algorithms are used in various real world smart applications and engineering problems It is a ready reference for researchers and practitioners in the field of information technology who are interested in the IoT and Machine Learning fields **Mobile Cloud Computing, Services and Engineering** Dr. Anand Rajavat,Dr. Jigyasu Dubey,Dr. Abhishek Singh Rathore,2025-02-14 Mobile Cloud Computing MCC merges the strengths of mobile and cloud computing to address the inherent limitations of mobile devices such as limited processing power storage and energy capacity By offloading computation and storage tasks to remote cloud servers MCC enhances the functionality

and accessibility of mobile applications across diverse industries including healthcare smart cities education and finance MCC operates through cloud computing models Infrastructure as a Service IaaS Platform as a Service PaaS and Software as a Service SaaS to deliver scalable cost effective solutions tailored to user needs Key advancements in MCC include its integration with big data analytics IoT and edge computing enabling real time processing reduced latency and sophisticated mobile solutions The paradigm also addresses critical security and privacy concerns by leveraging encryption compliance frameworks and collaborative efforts among stakeholders Innovations such as 5G networking and hybrid cloud models have further optimized MCC s performance expanding its potential in applications like telemedicine e learning fintech and sustainable energy management Key highlights of this book are Cloud Computing Architectures and Models Cloud Services and Applications Cloud Computing for Big Data and Analytics Cloud Computing for Internet of Things IoT Cloud Computing for Smart Cities Cloud Computing for Healthcare Applications E Learning and Education Proceedings of Fifth International Conference on Computing, Communications, and Cyber-Security Sudeep Tanwar,Pradeep Kumar Singh,Maria Ganzha,Gregory Epiphaniou,2024-07-30 This book features selected research papers presented at the Fifth International Conference on Computing Communications and Cyber Security IC4S 05 organized in India during 29 February to 1 March 2024 The conference was hosted at SMVDU Katra J K India It includes innovative work from researchers leading innovators and professionals in the areas of communication and network technologies advanced computing technologies data analytics and intelligent learning the latest electrical and electronics trends and security and privacy issues The work is presented in two volumes *Gene Expression Data Analysis* Pankaj Barah,Dhruba Kumar Bhattacharyya,Jugal Kumar Kalita,2021-11-21 Development of high throughput technologies in molecular biology during the last two decades has contributed to the production of tremendous amounts of data Microarray and RNA sequencing are two such widely used high throughput technologies for simultaneously monitoring the expression patterns of thousands of genes Data produced from such experiments are voluminous both in dimensionality and numbers of instances and evolving in nature Analysis of huge amounts of data toward the identification of interesting patterns that are relevant for a given biological question requires high performance computational infrastructure as well as efficient machine learning algorithms Cross communication of ideas between biologists and computer scientists remains a big challenge Gene Expression Data Analysis A Statistical and Machine Learning Perspective has been written with a multidisciplinary audience in mind The book discusses gene expression data analysis from molecular biology machine learning and statistical perspectives Readers will be able to acquire both theoretical and practical knowledge of methods for identifying novel patterns of high biological significance To measure the effectiveness of such algorithms we discuss statistical and biological performance metrics that can be used in real life or in a simulated environment This book discusses a large number of benchmark algorithms tools systems and repositories that are commonly used in analyzing gene expression data and validating results This book will benefit students researchers and

practitioners in biology medicine and computer science by enabling them to acquire in depth knowledge in statistical and machine learning based methods for analyzing gene expression data Key Features An introduction to the Central Dogma of molecular biology and information flow in biological systems A systematic overview of the methods for generating gene expression data Background knowledge on statistical modeling and machine learning techniques Detailed methodology of analyzing gene expression data with an example case study Clustering methods for finding co expression patterns from microarray bulkRNA and scRNA data A large number of practical tools systems and repositories that are useful for computational biologists to create analyze and validate biologically relevant gene expression patterns Suitable for multidisciplinary researchers and practitioners in computer science and biological sciences **Artificial Intelligence Algorithm Design for Systems** Radek Silhavy,Petr Silhavy,2024-11-25 This volume delves into the application of Artificial Intelligence within systems and network environments Highlighted papers investigate the latest in neural network applications optimisation strategies and hybrid bio inspired algorithms It includes the rigorously reviewed proceedings of the Artificial Intelligence Application in Networks and Systems session of the 13th Computer Science Online Conference 2024 CSOC 2024 held online in April 2024 *Exploiting Machine Learning for Robust Security* Minakshi,Bijalwan, Anchit,Kumar, Tarun,2025-04-16 In the digital world ensuring robust security is critical as cyber threats become more sophisticated and pervasive Machine learning can be used to strengthen cybersecurity and offer dynamic solutions that can identify predict and mitigate potential risks with unprecedented accuracy By analyzing vast amounts of data detecting patterns and adapting to evolving threats machine learning enables security systems to autonomously respond to anomalies and protect sensitive information in real time As technology advances the integration of machine learning into security systems represents a critical step towards creating adaptive protection against the complex challenges of modern cybersecurity Further research into the potential of machine learning in enhancing security protocols may highlight its ability to prevent cyberattacks detect vulnerabilities and ensure resilient defenses Exploiting Machine Learning for Robust Security explores the world of machine learning discussing the darknet of threat detection and vulnerability assessment malware analysis and predictive security analysis Using case studies it explores machine learning for threat detection and bolstered online defenses This book covers topics such as anomaly detection threat intelligence and machine learning and is a useful resource for engineers security professionals computer scientists academicians and researchers Context-Aware Systems and Applications Phan Cong Vinh,Vangalur Alagar,2016-04-16 This book constitutes the thoroughly refereed proceedings of the 4th International Conference on Context Aware Systems and Applications ICCASA 2015 held in Vung Tau Vietnam in November 2015 The 44 revised full papers presented were carefully selected and reviewed from over 100 submissions The papers cover a wide spectrum of issues in the area of context aware systems CAS and context based recommendation systems CAS is characterized by its self facets such as self organization self configuration self healing self optimization self protection and so

on whose context awareness used to dynamically control computing and networking functions The overall goal of CAS is to realize nature inspired autonomic systems that can manage themselves without direct human interventions **Artificial Intelligence and Sustainable Innovation** Arvind Dagur,Sohit Agarwal,Dhirendra Kumar Shukla,Shabir Ali,Sandhya Sharma,2026-01-06 This book brings together researchers academicians industry professionals and policymakers to explore the transformative role of Artificial Intelligence AI in addressing global sustainability challenges With a distinct focus on the United Nations Sustainable Development Goals SDGs it serves as a rich repository of research on AI for energy efficiency climate change mitigation smart cities healthcare and education This title comprises a selection of papers that reflect an emphasis on interdisciplinary research and real world applications It covers a broad spectrum of topics including but not limited to Artificial Intelligence and Sustainable Innovation in green infrastructure industry manufacturing education policy banking navigation communication security and sustainable agriculture It also delves into real life applications of intelligent computing and communication techniques in congruence with SDG goals Researchers academicians research scholars persons in industry students entrepreneurs and technology enthusiasts will benefit from this book **DDoS Attacks** Dhruba Kumar Bhattacharyya,Jugal Kumar Kalita,2016-04-27 DDoS Attacks Evolution Detection Prevention Reaction and Tolerance discusses the evolution of distributed denial of service DDoS attacks how to detect a DDoS attack when one is mounted how to prevent such attacks from taking place and how to react when a DDoS attack is in progress with the goal of tolerating the attack It introduces types and characteristics of DDoS attacks reasons why such attacks are often successful what aspects of the network infrastructure are usual targets and methods used to launch attacks The book elaborates upon the emerging botnet technology current trends in the evolution and use of botnet technology its role in facilitating the launching of DDoS attacks and challenges in countering the role of botnets in the proliferation of DDoS attacks It introduces statistical and machine learning methods applied in the detection and prevention of DDoS attacks in order to provide a clear understanding of the state of the art It presents DDoS reaction and tolerance mechanisms with a view to studying their effectiveness in protecting network resources without compromising the quality of services To practically understand how attackers plan and mount DDoS attacks the authors discuss the development of a testbed that can be used to perform experiments such as attack launching monitoring of network traffic and detection of attacks as well as for testing strategies for prevention reaction and mitigation Finally the authors address current issues and challenges that need to be overcome to provide even better defense against DDoS attacks *Cybersecurity Data Science* Scott Mongeau,Andrzej Hajdasinski,2021-10-01 This book encompasses a systematic exploration of Cybersecurity Data Science CSDS as an emerging profession focusing on current versus idealized practice This book also analyzes challenges facing the emerging CSDS profession diagnoses key gaps and prescribes treatments to facilitate advancement Grounded in the management of information systems MIS discipline insights derive from literature analysis and interviews with 50 global CSDS practitioners CSDS as a diagnostic

process grounded in the scientific method is emphasized throughout Cybersecurity Data Science CSDS is a rapidly evolving discipline which applies data science methods to cybersecurity challenges CSDS reflects the rising interest in applying data focused statistical analytical and machine learning driven methods to address growing security gaps This book offers a systematic assessment of the developing domain Advocacy is provided to strengthen professional rigor and best practices in the emerging CSDS profession This book will be of interest to a range of professionals associated with cybersecurity and data science spanning practitioner commercial public sector and academic domains Best practices framed will be of interest to CSDS practitioners security professionals risk management stewards and institutional stakeholders Organizational and industry perspectives will be of interest to cybersecurity analysts managers planners strategists and regulators Research professionals and academics are presented with a systematic analysis of the CSDS field including an overview of the state of the art a structured evaluation of key challenges recommended best practices and an extensive bibliography **Machine Learning, Big Data, and IoT for Medical Informatics** Pardeep Kumar,Yugal Kumar,Mohamed A. Tawhid,2021-06-13 Machine Learning Big Data and IoT for Medical Informatics focuses on the latest techniques adopted in the field of medical informatics In medical informatics machine learning big data and IOT based techniques play a significant role in disease diagnosis and its prediction In the medical field the structure of data is equally important for accurate predictive analytics due to heterogeneity of data such as ECG data X ray data and image data Thus this book focuses on the usability of machine learning big data and IOT based techniques in handling structured and unstructured data It also emphasizes on the privacy preservation techniques of medical data This volume can be used as a reference book for scientists researchers practitioners and academicians working in the field of intelligent medical informatics In addition it can also be used as a reference book for both undergraduate and graduate courses such as medical informatics machine learning big data and IoT Explains the uses of CNN Deep Learning and extreme machine learning concepts for the design and development of predictive diagnostic systems Includes several privacy preservation techniques for medical data Presents the integration of Internet of Things with predictive diagnostic systems for disease diagnosis Offers case studies and applications relating to machine learning big data and health care analysis **Innovative Machine Learning Applications for Cryptography** Ruth, J. Anitha,Vijayalakshmi, G.V. Mahesh,Visalakshi, P.,Uma, R.,Meenakshi, A.,2024-03-04 Data security is paramount in our modern world and the symbiotic relationship between machine learning and cryptography has recently taken center stage The vulnerability of traditional cryptosystems to human error and evolving cyber threats is a pressing concern The stakes are higher than ever and the need for innovative solutions to safeguard sensitive information is undeniable Innovative Machine Learning Applications for Cryptography emerges as a steadfast resource in this landscape of uncertainty Machine learning s prowess in scrutinizing data trends identifying vulnerabilities and constructing adaptive analytical models offers a compelling solution The book explores how machine learning can automate the process of constructing analytical models providing a continuous

learning mechanism to protect against an ever increasing influx of data This book goes beyond theoretical exploration and provides a comprehensive resource designed to empower academic scholars specialists and students in the fields of cryptography machine learning and network security Its broad scope encompasses encryption algorithms security and more unconventional topics like Quantum Cryptography Biological Cryptography and Neural Cryptography By examining data patterns and identifying vulnerabilities it equips its readers with actionable insights and strategies that can protect organizations from the dire consequences of security breaches Computational Intelligence Methods for Green Technology and Sustainable Development Yo-Ping Huang,Wen-June Wang,Hoang An Quoc,Le Hieu Giang,Nguyen-Le Hung,2020-10-27 This book is a selected collection of 54 peer reviewed original scientific research papers of the 5th International Conference on Green Technology and Sustainable Development GTSD2020 organised in Vietnam in 2020 It highlights the importance of sustainability as well as promotes up to date innovation and research for green development in technologies economics and education among countries The conference provides an international platform for researchers practitioners policymakers and entrepreneurs to present their advances knowledge and experience on various interdisciplinary topics related to the theme of Green technology and sustainable development in industrial revolution 4 0 The book is a valuable resource for researchers analysts engineers practitioners and policymakers who are interested in the latest findings in artificial intelligence cyber systems robotics green energy and power systems mechanical and computational mechanic models and advanced civil engineering This book has 05 sessions consisting of both theoretical and practical aspects and numerical and experimental analyses in various engineering disciplines *Fourth International Congress on Information and Communication Technology* Xin-She Yang,Simon Sherratt,Nilanjan Dey,Amit Joshi,2019-11-30 This book gathers selected high quality research papers presented at the Fourth International Congress on Information and Communication Technology held at Brunel University London on February 27 28 2019 It discusses emerging topics pertaining to information and communication technology ICT for managerial applications e governance e agriculture e education and computing technologies the Internet of things IoT and e mining Written by respected experts and researchers working on ICT the book offers a valuable asset for young researchers involved in advanced studies *International Conference on Intelligent Data Communication Technologies and Internet of Things (ICICI) 2018* Jude Hemanth,Xavier Fernando,Pavel Lafata,Zubair Baig,2018-12-20 This book discusses data communication and computer networking communication technologies and the applications of IoT Internet of Things big data cloud computing and healthcare informatics It explores examines and critiques intelligent data communications and presents inventive methodologies in communication technologies and IoT Aimed at researchers and academicians who need to understand the importance of data communication and advanced technologies in IoT it offers different perspectives to help readers increase their knowledge and motivates them to conduct research in the area highlighting various innovative ideas for future research *Proceedings of the Future Technologies Conference (FTC) 2023, Volume 3* Kohei Arai,2023-11-08 This

book is a collection of thoroughly well researched studies presented at the Eighth Future Technologies Conference This annual conference aims to seek submissions from the wide arena of studies like Computing Communication Machine Vision Artificial Intelligence Ambient Intelligence Security and e Learning With an impressive 490 paper submissions FTC emerged as a hybrid event of unparalleled success where visionary minds explored groundbreaking solutions to the most pressing challenges across diverse fields These groundbreaking findings open a window for vital conversation on information technologies in our community especially to foster future collaboration with one another We hope that the readers find this book interesting and inspiring and render their enthusiastic support toward it

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