*Article*

# SQL Injection Detection using Machine Learning: A Review

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*Abstract*— SQL injection attacks are critical security vulnerability exploitation in web applications, posing risks to data, if successfully executed, allowing attackers to gain unauthorised access to sensitive data. Due to the absence of a standardised structure, traditional signature-based detection methods face challenges in effectively detecting SQL injection attacks. To overcome this challenge, machine learning (ML) algorithms have emerged as a promising approach for detecting SQL injection attacks. This paper presents a comprehensive literature review on the utilisation of ML techniques for SQL injection detection. The review covers various aspects, including dataset collection, feature extraction, training, and testing, with different ML algorithms. The studies included in the review demonstrate high levels of accuracy in detecting attacks and reducing false positives.

*Keywords*— Cybersecurity; Machine Learning; SQL Injection Detection

## I. INTRODUCTION

SQL injection (SQLI) attacks are a common type of web application security vulnerability that can allow attackers to execute malicious SQL statements and gain unauthorised access to sensitive data. The increasing complexity of web applications and the need for robust and effective security measures make the use of robust techniques for detecting SQLI attacks. According to OWASP, SQLI is one of the top 10 most critical web application security risks. As shown in Fig.1, SQLI was recognised as the first most critical risk in their 2017 Top 10 report, with an estimated frequency of roughly 25%. In 2021, it drops to third place, with 94% of applications examined for some sort of injection, with a maximum incidence rate of 19% and an average incidence rate of 3.37 [1].

The lack of a standard structure for SQLI attacks makes it difficult to develop traditional signature-based detection methods that rely on predefined patterns or rules [26]. Machine learning (ML) algorithms can overcome this challenge by learning from patterns and relationships in the data, allowing them to detect previously unknown SQLI attacks and adapt to changes in attack techniques over time.

In this paper, our primary objective is to conduct an extensive literature review, systematically comparing various recent research studies that utilise ML algorithms to prevent and detect SQLI attacks. We aim to critically evaluate the feasibility and effectiveness of these algorithms as documented in existing research rather than conducting new experiments. Our goal is to synthesise this information to provide a detailed

# Sql Injection Detection Paper2009

Xiaochun Yun,Weiping Wen,Bo Lang,Hanbing Yan,Li Ding,Jia Li,Yu Zhou

**Sql Injection Detection Paper2009:**

*Algorithms in Advanced Artificial Intelligence* R. N. V. Jagan Mohan,Vasamsetty Chandra Sekhar,V. M. N. S. S. V. K. R. Gupta,2024-07-08 The most common form of severe dementia Alzheimer s disease AD is a cumulative neurological disorder because of the degradation and death of nerve cells in the brain tissue intelligence steadily declines and most of its activities are compromised in AD Before diving into the level of AD diagnosis it is essential to highlight the fundamental differences between conventional machine learning ML and deep learning DL This work covers a number of photo preprocessing approaches that aid in learning because image processing is essential for the diagnosis of AD The most crucial kind of neural network for computer vision used in medical image processing is called a Convolutional Neural Network CNN The proposed study will consider facial characteristics including expressions and eye movements using the diffusion model as part of CNN s meticulous approach to Alzheimer s diagnosis Convolutional neural networks were used in an effort to sense Alzheimer s disease in its early stages using a big collection of pictures of facial expressions *Advances in Information Communication Technology and Computing* Vishal Goar,Manoj Kuri,Rajesh Kumar,Tomonobu Senjyu,2024-10-02 The book is a collection of best selected research papers presented at the International Conference on Advances in Information Communication Technology and Computing AICTC 2024 held in NJSC South Kazakhstan State Pedagogical University Shymkent City Kazakhstan during April 29 30 2024 The book covers ICT based approaches in the areas of ICT for energy efficiency life cycle assessment of ICT green IT green information systems environmental informatics energy informatics sustainable HCI or computational sustainability *AUUGN* ,2005-10 **Information Security Applications** Jae-Kwang Lee,Okyeon Yi,Moti Yung,2007-05-30 This book constitutes the refereed proceedings of the 7th International Workshop on Information Security Applications WISA 2006 held in Jeju Island Korea in August 2006 Coverage in the 30 revised full papers includes public key crypto applications and virus protection cyber indication and intrusion detection biometrics and security trust management secure software and systems smart cards and secure hardware and mobile security **Cyber Security** Xiaochun Yun,Weiping Wen,Bo Lang,Hanbing Yan,Li Ding,Jia Li,Yu Zhou,2019-02-19 This open access book constitutes the refereed proceedings of the 15th International Annual Conference on Cyber Security CNCERT 2018 held in Beijing China in August 2018 The 14 full papers presented were carefully reviewed and selected from 53 submissions The papers cover the following topics emergency response mobile internet security IoT security cloud security threat intelligence analysis vulnerability artificial intelligence security IPv6 risk research cybersecurity policy and regulation research big data analysis and industrial security **Future Internet Testing** Tanja E.J. Vos,Kiran Lakhotia,Sebastian Bauersfeld,2014-06-03 This book constitutes the proceedings of the First International Workshop on future Internet Testing FITTEST 2013 held in Turkey Istanbul in November 2013 in conjunction with the International Conference on Testing Software and Systems ICTSS The volume presents a total of 7 contributions 5 full papers which were selected from 8 submissions as well as a paper on the Java Unit

Test Competition and a summary of the achievements of the FITTEST project     **IGNOU Software Engineering Previous 10 Years Solved Papers** Manish Soni,2024-11-13 Welcome to the world of software engineering at the Indira Gandhi National Open University IGNOU This book presents a valuable collection of solved papers from the past 10 years offering students and learners a comprehensive resource to aid in their journey of mastering software engineering concepts and techniques Software engineering is a dynamic field that continually evolves reflecting the rapid advancements in technology and the growing demands of industry and society At IGNOU we are committed to providing accessible high quality education in this discipline ensuring that our students are well prepared for the challenges of the software industry This book is a testament to our dedication to excellence in software engineering education It includes a wide range of solved papers covering topics such as software development methodologies software design software testing and project management Each solved paper is accompanied by detailed explanations and insights helping you understand the problem solving process and the underlying concepts We believe that by studying these past papers you will not only be better equipped to succeed in your examinations but will also gain a deeper understanding of the principles and practices that underpin software engineering Whether you are an IGNOU student a software professional looking to enhance your skills or anyone interested in software engineering this book is a valuable resource We encourage you to approach these papers with curiosity dedication and a passion for learning By doing so you will be better prepared to face the challenges and opportunities of the software engineering world We wish you the best of success in your academic and professional pursuits Why Solved Papers Matter Solved papers are an invaluable resource for any student They provide insights into the patterns and types of questions asked in examinations help you understand the depth and breadth of the curriculum and allow you to practice with real previously asked questions By working through these papers you will gain a better understanding of the exam format and can build confidence in your preparation As you browse through this book you ll find solutions to questions from various software engineering courses offered by IGNOU Our team of experienced software engineering educators and professionals has worked diligently to provide clear and accurate solutions ensuring that you can learn not only from the questions but also from the way they are answered Each solution is accompanied by detailed explanations to help you understand the concepts methodologies and best practices in software engineering Maximizing Your Exam Success While this book is a valuable resource for your exam preparation remember that success in your software engineering studies depends on consistent effort and a structured approach We encourage you to Read and understand the course materials provided by IGNOU Attend classes engage with your instructors and participate in group discussions Solve the questions on your own before reviewing the solutions in this book Create a study plan that allows you to cover all relevant topics Take practice tests under exam conditions to gauge your progress and identify areas that need improvement     *Smart and Innovative Trends in Next Generation Computing Technologies* Pushpak Bhattacharyya,Hanumat G. Sastry,Venkatadri Marriboyina,Rashmi

Sharma,2018-06-08 The two volume set CCIS 827 and 828 constitutes the thoroughly refereed proceedings of the Third International Conference on Next Generation Computing Technologies NGCT 2017 held in Dehradun India in October 2017 The 135 full papers presented were carefully reviewed and selected from 948 submissions There were organized in topical sections named Smart and Innovative Trends in Communication Protocols and Standards Smart and Innovative Trends in Computational Intelligence and Data Science Smart and Innovative Trends in Image Processing and Machine Vision Smart Innovative Trends in Natural Language Processing for Indian Languages Smart Innovative Trends in Security and Privacy

**Advanced Computing, Networking and Security** P. Santhi Thilagam,Alwyn Roshan Pais,K. Chandrasekaran,VINOD KRISHAN,2012-04-20 This book constitutes revised selected papers from the International Conference on Advanced Computing Networking and Security ADCONS 2011 held in Surathkal India in December 2011 The 73 papers included in this book were carefully reviewed and selected from 289 submissions The papers are organized in topical sections on distributed computing image processing pattern recognition applied algorithms wireless networking sensor networks network infrastructure cryptography Web security and application security *Artificial Intelligence and Machine Learning* Hai Jin,Yi Pan,Jianfeng Lu,2024-04-02 This 3 volume set CCIS 2058 2060 constitutes the First International Conference on Artificial Intelligence IAIC 2023 held in Nanjing China in November 2023 The 85 full papers presented were carefully reviewed and selected from 428 submissions The papers are clustered in parts on Artificial Intelligence and Machine Learning Data Security and information Security Computer Networks and IoT The papers present recent research and developments in artificial intelligence and its applications in machine learning natural language processing computer vision robotics and ethical considerations Encyclopedia of Portal Technologies and Applications Tatnall, Arthur,2007-04-30 Informatique

**Detection of Intrusions and Malware, and Vulnerability Assessment** Ulrich Flegel,Danilo Bruschi,2009-06-29 This book constitutes the refereed proceedings of the 6th International Conference on Detection of Intrusions and Malware and Vulnerability Assessment DIMVA 2009 held in Milan Italy in July 2009 The 10 revised full papers presented together with three extended abstracts were carefully selected from 44 initial submissions The papers are organized in topical sections on malware and SPAM emulation based detection software diversity harnessing context and anomaly detection

**International Symposium on Distributed Computing and Artificial Intelligence 2008 (DCAI´08)** Juan Manuel Corchado Rodríguez,Sara Rodriguez,James Llinas,Jose M. Molina,2008-09-16 The International Symposium on Distributed Computing and Artificial Intelligence is an annual forum that brings together ideas projects lessons etc associated with distr uted computing artificial intelligence and its applications in different themes This meeting has been held at the University of Salamanca from the 22th to the 24th of October 2008 This symposium has be organized by the Biomedicine Intelligent S tem and Educational Technology Research Group http bisite usal es of the Univ sity of Salamanca The technology transfer in this field is still a challenge and for that reason this type of contributions has been specially considered in this edition This c

ference is the forum in which to present application of innovative techniques to complex problems The artificial intelligence is changing our society Its application in distr uted environments such as the Internet electronic commerce mobile communications wireless devices distributed computing and so on is increasing and is becoming an element of high added value and economic potential both industrial and research These technologies are changing constantly as a result of the large research and technical effort being undertaken in both universities and businesses The exchange of ideas between scientists and technicians from both academic and business areas is essential to facilitate the development of systems that meet the demands of today s society    Blockchain Detection of Cybersecurity Attacks and Risk Management Almaiah, Mohammed Amin,2025-07-25 Blockchain technology emerges as a transformative force in cybersecurity offering decentralized transparent and secure mechanisms that enhance threat detection and risk management Traditional security systems often leave organizations exposed to advanced threats By leveraging blockchain security frameworks can detect anomalies in real time track data and events and ensure accountability across networks This integration of blockchain into cybersecurity strengthens threat response and redefines risk management strategies by providing records of activity enabling more proactive and resilient security Blockchain Detection of Cybersecurity Attacks and Risk Management explores the innovative application of blockchain technology in the realm of cyber risk management It examines how blockchain is being leveraged to address cybersecurity challenges enhance data integrity and fortify risk management practices in various industries This book covers topics such as machine learning threat detection and fuzzy logic and is a useful resource for engineers security professionals business owners academicians researchers and data scientists    **Computational Intelligence in Security for Information Systems 2010** Álvaro Herrero,Emilio Corchado,Carlos Redondo Gil,Ángel Alonso Alvarez,2010-10-07 rd The 3 International Conference on Computational Intelligence in Security for Information Systems CISIS 2010 provided a broad and interdisciplinary forum to present the most recent developments in several very active scientific areas such as Machine Learning Infrastructure Protection Intelligent Methods in Energy and Transportation Network Security Biometry Cryptography High performance and Grid Computing and Industrial Perspective among others The global purpose of CISIS series of conferences has been to form a broad and interdisciplinary meeting ground offering the opportunity to interact with the leading research team and industries actively involved in the critical area of security and have a picture of the current solutions adopted in practical domains This volume of Advances in Intelligence and Soft Computing contains accepted papers presented at CISIS 2010 which was held in Le n Spain on November 11 12 2010 CISIS 2010 received over 50 technical submissions After a thorough peer review process the International Program Committee lected 25 papers which are published in this conference proceedings This allowed the Scientific Committee to verify the vital and crucial nature of the topics volved in the event and resulted in an acceptance rate close to 50% of the ori nally submitted manuscripts    *Linux Firewalls* Michael Rash,2007-09-07 System administrators need to stay ahead of new security vulnerabilities that leave their

networks exposed every day A firewall and an intrusion detection systems IDS are two important weapons in that fight enabling you to proactively deny access and monitor network traffic for signs of an attack Linux Firewalls discusses the technical details of the iptables firewall and the Netfilter framework that are built into the Linux kernel and it explains how they provide strong filtering Network Address Translation NAT state tracking and application layer inspection capabilities that rival many commercial tools You ll learn how to deploy iptables as an IDS with psad and fwsnort and how to build a strong passive authentication layer around iptables with fwknop Concrete examples illustrate concepts such as firewall log analysis and policies passive network authentication and authorization exploit packet traces Snort ruleset emulation and more with coverage of these topics Passive network authentication and OS fingerprinting iptables log analysis and policies Application layer attack detection with the iptables string match extension Building an iptables ruleset that emulates a Snort ruleset Port knocking vs Single Packet Authorization SPA Tools for visualizing iptables logs Perl and C code snippets offer practical examples that will help you to maximize your deployment of Linux firewalls If you re responsible for keeping a network secure you ll find Linux Firewalls invaluable in your attempt to understand attacks and use iptables along with psad and fwsnort to detect and even prevent compromises **Testing: Academic and Industrial Conference - Practice and Research Techniques** Leonardo Bottaci,Gordon Fraser,2010-08-30 A Message from the TAIC PART 2010 General Chair TAIC PART is a unique event that strives to combine aspects of a conference a workshop and a retreat Its purpose is to bring together industrialists and academics in an environment that promotes fundamental collaborationon pr lems in software testing Among the wide range of topics in computer science andsoftwareengineering softwaretesting is anidealcandidatefor academicand industrialcollaborationbecauseadvancesinresearchcanhavesuchwide ranging and far reaching implications for industry Conversely the advances in comp ing and communications technology and the growth of the associated software engineering activity are producing new researchchallengesat an increasing rate The problems that arise in software testing are related to the problems that ariseinmanyotherareasofcomputing Assuch testingresearchcombinesawide range of elements encompassing the theoretical work of program analysis and formal methods and the associated representations such as nite state machines and dependence graphs The inherent complexity of software testing has led to the involvement of heuristic methods Software testing is also a human activity and has thus seen the involvement of psychology sociologyand even philosophy This astonishing breadth and depth have made the problems of software testing appealing to academics for several decades **Financial Cryptography and Data Security** Radu Sion,2010-07-16 This book constitutes the thoroughly refereed post conference proceedings of the 14th International Conference on Financial Cryptography and Data Security FC 2010 held in Tenerife Canary Islands Spain in January 2010 The 19 revised full papers and 15 revised short papers presented together with 1 panel report and 7 poster papers were carefully reviewed and selected from 130 submissions The papers cover all aspects of securing transactions and systems and feature current research focusing on both

fundamental and applied real world deployments on all aspects surrounding commerce security **Structured Object-Oriented Formal Language and Method** Shaoying Liu,Zhenhua Duan,2014-02-20 This book constitutes revised selected papers from the Third International Workshop on Structured Object Oriented Formal Language and Method SOFL MSVL 2013 held in Queenstown New Zealand in October 2013 The 13 papers presented in this volume were carefully reviewed and selected from 22 submissions They are organized in topical sections on testing and verification simulation and model checking SOFL tools and formal specification and application Penetration Testing and Network Defense Andrew Whitaker,Daniel P. Newman,2005-10-31 The practical guide to simulating detecting and responding to network attacks Create step by step testing plans Learn to perform social engineering and host reconnaissance Evaluate session hijacking methods Exploit web server vulnerabilities Detect attempts to breach database security Use password crackers to obtain access information Circumvent Intrusion Prevention Systems IPS and firewall protections and disrupt the service of routers and switches Scan and penetrate wireless networks Understand the inner workings of Trojan Horses viruses and other backdoor applications Test UNIX Microsoft and Novell servers for vulnerabilities Learn the root cause of buffer overflows and how to prevent them Perform and prevent Denial of Service attacks Penetration testing is a growing field but there has yet to be a definitive resource that instructs ethical hackers on how to perform a penetration test with the ethics and responsibilities of testing in mind Penetration Testing and Network Defense offers detailed steps on how to emulate an outside attacker in order to assess the security of a network Unlike other books on hacking this book is specifically geared towards penetration testing It includes important information about liability issues and ethics as well as procedures and documentation Using popular open source and commercial applications the book shows you how to perform a penetration test on an organization s network from creating a test plan to performing social engineering and host reconnaissance to performing simulated attacks on both wired and wireless networks Penetration Testing and Network Defense also goes a step further than other books on hacking as it demonstrates how to detect an attack on a live network By detailing the method of an attack and how to spot an attack on your network this book better prepares you to guard against hackers You will learn how to configure record and thwart these attacks and how to harden a system to protect it against future internal and external attacks Full of real world examples and step by step procedures this book is both an enjoyable read and full of practical advice that will help you assess network security and develop a plan for locking down sensitive data and company resources This book goes to great lengths to explain the various testing approaches that are used today and gives excellent insight into how a responsible penetration testing specialist executes his trade Bruce Murphy Vice President World Wide Security Services Cisco Systems

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