A Deep Learning-Based Framework for Phishing Website Detection

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ABSTRACT Phishing attackers spread phishing links through e-mail, text messages, and social media platforms. They use social engineering skills to trick users into visiting phishing websites and entering crucial personal information. In the end, the stolen personal information is used to defraud the trust of regular websites or financial institutions to obtain illegal benefits. With the development and applications of machine learning technology, many machine learning-based solutions for detecting phishing have been proposed. Some solutions are based on the features extracted by rules, and some of the features need to rely on third-party services, which will cause instability and time-consuming issues in the prediction service. In this paper, we propose a deep learning-based framework for detecting phishing websites. We have implemented the framework as a browser plug-in capable of determining whether there is a phishing risk in real-time when the user visits a web page and gives a warning message. The real-time prediction service combines multiple strategies to improve accuracy, reduce false alarm rates, and reduce calculation time, including whitelist filtering, blacklist interception, and machine learning (ML) prediction. In the ML prediction module, we compared multiple machine learning models using several datasets. From the experimental results, the RNN-GRU model obtained the highest accuracy of 99.18%, demonstrating the feasibility of the proposed solution.

INDEX TERMS Phishing detection, machine learning, deep learning, RNN-GRU, web browser extension.

I. INTRODUCTION

Internet services have brought tremendous changes to people's lives. Most online services manage users through a membership system, and individual users need to register and log in to obtain these personalized services. Therefore, people need to provide personal information when enjoying these convenient and efficient services. In a secure network environment, the transmission and storage of information are protected by network security technology. However, there are many cybercriminals who use various methods to attack and steal personal information.

Phishing is one of the cyberattack methods that simulate a regular website to trick users into providing personal information. Since the emergence of phishing attacks more than ten years ago, network security experts have been using technical methods to intercept attacks. Attack technology and anti-attack technology are constantly changing and improving. Unfortunately, there is no effective technology that can

completely prevent phishing attacks. From the network security reports in recent years, we can see that the economic losses caused by phishing attacks are huge [2]. According to the phishing activity report from APWG, there are more than 100,000 phishing links every month, and it has been a growing trend in the past year [3]. The 2020 annual report from the Internet crime complaint center showed that the economic loss caused by phishing attacks was over $54 million [4].

Commonly used means of spreading phishing links are e-mails, text messages, and social media platforms. The content of the copy edited by the attacker through social engineering means that the user is very eager to click on the phishing link after receiving the information. Therefore, when the phishing link is accessed in the browser, detecting the risk through network security technology, and alerting the user is a very effective anti-attack technology to prevent the user from leaking personal information.

The core of traditional methods of detecting phishing URLs is based on rules. The generation of these rules can be summarized as parsing features from URL and web-page source code and comparing the feature value with

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Internet of Things driven applications and cybersecurity techniques in the era of Industrial Revolution 4 0 AI Centric Modeling and Analytics Concepts Technologies and Applications focuses on how to implement solutions using models and techniques to gain insights predict outcomes and make informed decisions This book presents advanced AI centric modeling and analysis techniques that facilitate data analytics and learning in various applications It offers fundamental concepts of advanced techniques technologies and tools along with the concept of real time analysis systems It also includes AI centric approaches for the overall innovation development and implementation of business development and management systems along with a discussion of AI centric robotic process automation systems that are useful in many government and private industries This reference book targets a mixed audience of engineers and business analysts researchers professionals and students from various fields   *Cognition, Behavior and Cybersecurity* Paul Watters,Dr Nalin Asanka Gamagedara Arachchilage,David Maimon,Richard Keith Wortley,2021-10-29   *Towards a Wireless Connected World: Achievements and New Technologies* Al-Sakib Khan Pathan,2022-05-17 This book gathers key advances in various areas related to using wireless Internet and wireless connectivity to achieve a more connected world The world is now highly dependent on Internet connectivity Even though some parts of the globe remain isolated the smoothly running world all around us relies on Internet services for countless businesses and activities During the COVID 19 pandemic we have seen that exclusively relying on wired Internet would leave out a large part of our tech savvy world Hence wireless connectivity is essential to anywhere anytime connectivity Further in the event of a new pandemic or other disaster of global scale wireless Internet offers a reliable way to keep us all connected The contributors to this book hailing from academia industrial and research laboratories report on the latest solutions trends and technologies with the potential to make wireless Internet more reliable and secure for the years to come   **Evaluating and Attacking Statistical Spam Filtering Systems** Gregory Lee Wittel,2004   **Mitigating Phishing Attacks** Ebrima N. Ceesay,2008   **One Hundred and One Things You Can Do Right Now to Increase Your Productivity Online** ,2006   *Fighting Spam, Phishing and Email Fraud* Shalendra Chhabra,2005   KDD ... ,2006   **Handbook of Information Security, Information Warfare, Social, Legal, and International Issues and Security Foundations** Hossein Bidgoli,2006 The only comprehensive guide to every Internet topic from ActiveX to XBRL   **Proceedings of the ... USENIX Security Symposium** ,2005   **Advances in Case-based Reasoning** ,2004   **Documentation Abstracts** ,2003   **Sys Admin** ,2005

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