

# Malicious URL Detection using Machine Learning

Prof. Rajeshree Sonawale<sup>1</sup>, Tanmay Khedekar<sup>2</sup>, Amar Kamble<sup>3</sup>, Juhi Kumavat<sup>4</sup>

Professor, Department of Computer Engineering<sup>1</sup>

Students, Department of Computer Engineering<sup>2,3,4</sup>

Mahatma Gandhi College of Engineering And Technology, Navi Mumbai, India

**Abstract:** *Currently, the risk of network information insecurity is increasing rapidly in number and level of danger. The methods mostly used by hackers today is to attack end-to-end technology and exploit human vulnerabilities. These techniques include social engineering, phishing, pharming, etc. One of the steps in conducting these attacks is to deceive users with malicious Uniform Resource Locators (URLs). As a results, malicious URL detection is of great interest nowadays. There have been several scientific studies showing a number of methods to detect malicious URLs based on machine learning and deep learning techniques. In this paper, we propose a malicious URL detection method using machine learning techniques based on our proposed URL behaviors and attributes.*

**Keywords:** Machine Learning, URLs, Malicious, Phishing

## REFERENCES

- [1]. Phishing URL Detection: A Real-Case Scenario Through Login URLs ( April 18 IEEE ) from <https://ieeexplore.ieee.org/document/9759382>
- [2]. Malicious URL Detection using Logistic Regression ( 2022 ) from International Journal of Research in Engineering and Science (IJRES)
- [3]. Malicious URL Detection based on Machine Learning (2020 ) from (IJACSA) International Journal of Advanced Computer Science and Applications, Vol. 11, No. 1, 2020.
- [4]. Malicious URL Detection using Machine Learning: A Survey from (24 August 2019) School of Information Systems, Singapore Management University.
- [5]. Phishing Detection: A Literature Survey by Mahmoud Khonji, Youssef Iraqi, Senior Member, IEEE, and Andrew Jones from IEEE COMMUNICATIONS SURVEYS & TUTORIALS, VOL. 15, NO. 4, FOURTH QUARTER 2013