

**AN INTELLIGENT SYSTEM USING AI/ML TO DETECT
PHISHING DOMAINS**

A PROJECT REPORT

Submitted by,

Ms. Hema Deepika Mikkili - 20211CSE0324

Ms. Isha Bhardwaj - 20211CSE0331

Under the guidance of,

Dr. Pamela Vinitha Eric

School of Computer Science and Engineering

Presidency University, Bangalore

in partial fulfillment for the award of the degree of

BACHELOR OF TECHNOLOGY

**IN
COMPUTER SCIENCE AND ENGINEERING AT**



PRESIDENCY UNIVERSITY BENGALURU DECEMBER 2024

PRESIDENCY UNIVERSITY

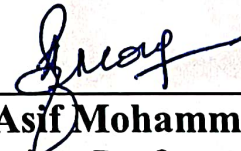
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CERTIFICATE

This is to certify that the Project report **AN INTELLIGENT SYSTEM USING AI/ML TO DETECT PHISHING DOMAINS** being submitted by Hema Deepika Mikkili(20211CSE0324), Isha Bhardwaj(20211CSE00331), in partial fulfillment of the requirement for the award of the degree of Bachelor of Technology in Computer Science and Engineering is a bonafide work carried out under my supervision.



Dr. Pamela Vinitha Eric
Professor CSE
School of CSE
Presidency University



Dr. Asif Mohammed H.B
Associate Professor & HOD
School of CSE
Presidency University



Dr. Mydhili Nair
Associate Dean
PSCS
Presidency University



Dr. Sameeruddin Khan
Pro-Vice Chancellor- Engineering
Dean – PSCS/PSIS
Presidency University

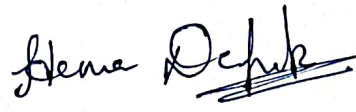

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DECLARATION

We hereby declare that the work, which is being presented in the project report entitled in **AN INTELLIGENT SYSTEM USING AI/ML TO DETECT PHISHING DOMAINS** partial fulfillment for the award of Degree of **Bachelor of Technology in Computer Science and Engineering**, is a record of our own investigations carried under the guidance of **Dr. Pamela Vinitha Eric Professor**, **School of Computer Science Engineering Presidency University, Bengaluru**.

We have not submitted the matter presented in this report anywhere for the award of any other Degree.

 **Hema Deepika Mikkili**
 **Isha Bhardwaj**

ABSTRACT

Phishing attacks have become a significant cybersecurity threat, with attackers using deceptive domains to steal sensitive information. This project presents an intelligent system leveraging Artificial Intelligence (AI) and Machine Learning (ML) to detect phishing domains with high accuracy. The system analyzes various features of a domain, including URL structure, lexical characteristics, and hosting details, to classify it as legitimate or malicious. Advanced ML algorithms such as decision trees, random forests, and deep learning models are employed to enhance detection efficiency. The proposed solution aims to provide real-time threat identification, reducing the risk of cyber fraud and improving online security. Experimental results demonstrate the effectiveness of the system in identifying phishing domains with high precision and recall.

ACKNOWLEDGEMENT

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We express our sincere thanks to our respected dean **Dr. Md. Sameeruddin Khan**, Pro- VC, School of Engineering and Dean, School of Computer Science Engineering & Information Science, Presidency University for getting us permission to undergo the project.

We express our heartfelt gratitude to our beloved Associate Dean **Dr. Mydhili Nair**, School of Computer Science Engineering & Information Science, Presidency University, and **Dr. Asif Mohammed** Head of the Department, School of Computer Science Engineering , Presidency University, for rendering timely help in completing this project successfully.

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Hema Deepika

Hema Deepika Mikkili

Isha Bhardwaj

Isha Bhardwaj