CMR College of Engineering & Technology

(UGC Autonomous)

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Department of CSE

MINI PROJECT(A405802) - R22	
Project Batch No : 84	
Domain of the Project	**Machine learning**
Title of the Project	PHISH CATCHER: CLIENT-SIDE DEFENCE AGAINST WEB SPOOFING ATTACKS USING MACHINE LEARNING
Year/Sem	3 rd year/VI sem
Name of the Guide & Designation	MS.R.Dipika Rath , Asst. Professor
Date of Submission	08-03-2025
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ABSTRACT

Online security is now seriously threatened by web spoofing assaults, such as phishing and man-in-the-middle attacks. These assaults frequently trick people into visiting malicious websites that look like trustworthy ones, which can result in identity theft, data breaches, and financial loss. In this work, we provide Phish Catcher, a revolutionary client-side security solution that uses machine learning to instantly identify and stop web spoofing assaults. The system analyzes the visual characteristics, URL patterns, and underlying webpage components of websites that the user visits using a variety of machine learning methods. Phish Catcher detects possible spoof websites by comparing these characteristics to a pre-trained model. It then instantly alerts the user to potential security threats. The user experience is kept as unhindered as possible by the system's smooth background operation. According to our findings, Phish Catcher improves overall security while preserving usability by drastically lowering the possibility that consumers will connect with rogue websites. In terms of strengthening client-side defenses against web-based spoofing assaults, this strategy is a promising advancement.

Guide Signature **Project Coordinator** **HOD**