



DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING

Course Code & Name : **20CS7503 & DESIGN PROJECT 3**

Year / Semester : **IV / VII**

Section : **A**

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Title of the Project : **AI POWERED PHISHING DETECTOR**

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ABSTRACT

Phishing is one of the most common cyber threats that deceive users into revealing sensitive information such as passwords, credit card details, and personal credentials. This project, AI-Powered Phishing Website Detector, aims to enhance user safety by automatically detecting and alerting users about potentially harmful or fraudulent websites. The proposed system is implemented as a Chrome Extension that analyses URLs in real time using a combination of Machine Learning, Blacklist/Whitelist filtering, and SSL/TLS certificate validation. The extension allows users to check the safety of any website they visit, providing a detailed safety score and threat report. The AI model is trained on various URL features such as domain length, presence of suspicious keywords, and abnormal hosting patterns. Once a suspicious website is identified, the extension provides an instant warning to prevent the user from proceeding further.

Keywords: Phishing, Blacklist / Whitelist filtering, SSL / TLS Certificate validation