VISVESVARAYA TECHNOLOGICAL UNIVERSITY,

BELAGAVI

A PROJECT REPORT ON

"MALICIOUS WEB PAGE DETECTION IN BROWSER BY MACHINE LEARNING TECHNIQUE"

Submitted in partial fulfillment for the award of Degree of,

BACHELOR OF ENGINEERING

IN

COMPUTER SCIENCE &ENGINEERING

By

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ALVA'S INSTITUTE OF ENGINEERING AND TECHNOLOGY

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CERTIFICATE

This is to certify that the project entitled "MALICIOUS WEB PAGE DETECTION IN BROWSER BY MACHINE LEARNING TECHNIQUE" has been successfully completed by

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the bonafide students of **DEPARTMENT OF COMPUTER SCIENCE & ENGINEERING, ALVA'S INSTITUTE OF ENGINEERING AND TECHNOLOGY** of the **VISVESVARAYA TECHNOLOGICAL UNIVERSITY, BELAGAVI** during the year 2020–2021. It is Certified that all corrections/suggestions indicated for Internal Assessment have been incorporated in the report deposited in the departmental library. The project report has been approved as it satisfies the academic requirements in respect of Project work prescribed for the Bachelor of Engineering Degree.

4/8/21

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ABSTRACT

Phishing is the most often employed social engineering and cyber-attack in the current circumstances. As a result of such attacks, attackers attack on naïve online users, duping them into revealing private information in order to utilize it fraudulently. In order to avoid phishing websites, users must be aware of phishing attacks or utilize a technology that detects phishing pages. Our aim is to build a browser extension that acts as a gateway between users and malicious websites. This extension is been developed using a machine learning technique, and we used the random forest, which provides 99.63 %. The tool will be trained on static and dynamic features of the web pages. If a web page includes hidden malicious content or malware, our model will recognize it and display a popup notice to naïve users otherwise load the legitimate web pages.