VISVESVARAYA TECHNOLOGICAL UNIVERSITY, BELAGAVI

PROJECT REPORT ON

"AUTO DETECTION OF PHISHING WEBSITES USING MACHINE LEARNING"

Submitted in partial fulfilment for the award of Degree of

BACHELOR OF ENGINEERING

IN

COMPUTER SCIENCE & ENGINEERING

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CERTIFICATE

This is to certify that the Project entitle **"AUTO-DETECTION OF PHISHING WEBSITES USING MACHINE LEARNING"** has been successfully completed by

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Abstract

Phishing is the act of mimicking a creditable company's website aiming to take private information of a user. The random forest classifier seems to outperform other techniques in detecting phishing sites. These techniques, however use python machine learning libraries and thus they can't be used in the browser in real-time. The main objective of this project is to develop a Chrome browser plugin that detects phishing sites in real-time while the user browses the page. One common approach is to make the prediction in a server and then let the plugin to contact the server for each page. Unlike the old approach, this project aims to run the classification in the browser itself. The advantage of classifying in the client side browser has advantages like, better privacy (the user's browsing data need not leave his machine), independent of network latency. This project is mainly implemented using JavaScript for it to run as a browser plugin. Since JavaScript does not have much Machine Learning libraries to support, python is used. This makes the plugin lightweighted.