

A Project Report

On

“Campus Vehicle Monitoring and Alert System”

Submitted to the

Savitribai Phule Pune University

In partial fulfillment for the award of the Degree of

Bachelor of Technology

in

Information Technology

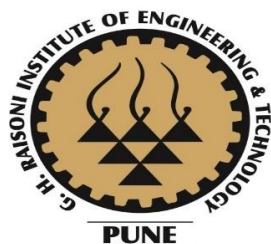
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CERTIFICATE

This is to certify that the project-based report entitled “**Campus Vehicle Monitoring and Alert System**” being submitted by **Santosh Wankhede, Aakarsh More, Yogesh Tawde, Utkarsh Paithane** is a record of bonafide work carried out by him/her under the supervision and guidance of **Mrs. Sheetal Borhade** in partial fulfillment of the requirement for **B. Tech (Information Technology Engineering) – 2020 course** of Savitribai Phule Pune University, Pune in the academic year 2023-2024.

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ABSTRACT

The Campus Vehicle Monitoring and Alert System aims to address the pervasive issue of vehicle theft by implementing a robust image processing technique centered around number plate recognition. Given the escalating frequency of vehicle theft, our project focuses on creating an effective automated system for authorized vehicle identification. This system utilizes a sophisticated car number plate detection mechanism to identify vehicles entering and exiting a designated area. The core objective involves the extraction of pertinent information from the vehicle's number plate using an Optical Character Recognition (OCR) algorithm. The OCR algorithm plays a pivotal role in accurately recognizing and extracting alphanumeric details from the number plate image, facilitating subsequent identification of the vehicle owner. The system then sends a notification containing relevant details to the respective owner, ensuring swift and informed responses. This innovative approach integrates cutting-edge technology to create a proactive solution for countering vehicle theft and bolstering overall security.

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