A PROJECT REPORT ON

AUTOMATIC TRAFFIC E-CHALLAN GENERATION USING COMPUTER VISION

SUBMITTED TO THE SAVITRIBAI PHULE PUNE UNIVERSITY IN THE PARTIAL FULFILLMENT OF THE REQUIREMENTS FOR THE AWARD OF DEGREE

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By

SHRAYANK MISTRY	**B150234309**
PARAG NANKAR	**B150234318**
GAURAV PATIL	**B150234334**
PRATHAMESH TAMBE	**B150234390**

Under the guidance of
Prof. M. R. DHAGE

Sinhgad Institutes

DEPARTMENT OF COMPUTER ENGINEERING
SINHGAD COLLEGE OF ENGINEERING, PUNE– 41

Accredited by NAAC

2018-19

Sinhgad Technical Education Society,
Department of Computer Engineering
Sinhgad College of Engineering , Pune-41

Sinhgad Institutes

Date:

CERTIFICATE

This is to certify that the project report entitled

"Automatic Traffic E-challan Generation Using Computer Vision"

Submitted by

SHRAYANK MISTRY	**B150234309**
PARAG NANKAR	**B150234318**
GAURAV PATIL	**B150234334**
PRATHAMESH TAMBE	**B150234390**

is a bonafide work carried out by them under the supervision of Prof. M.R. Dhage and it is approved for the partial fulfillment of the requirements of Savitribai Phule Pune University, Pune for the award of the degree of Bachelor of Engineering (Computer Engineering) during the year 2018-19.

Prof. M.R. DHAGE
Internal Guide

Prof. M.P. WANKHADE
Head
Department of Computer Engineering

Dr. S.D. LOKHANDE
Principal
Sinhgad College of Engineering

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Shrayank Mistry
Parag Nankar
Gaurav Patil
Prathamesh Tambe

Abstract

Now-a-days the system that is being used to detect traffic violation at signals involves human intervention. Image for the camera at signals is given as information to the person checking for traffic violation in traffic control room and he/she manually checks the registration number from number plate and enters the registration number of the vehicle manually and the challan for that vehicle is generated. This system requires a lot of effort from two people so we have designed a system that is completely automated and fast as well as fast.

The Automatic recognition of license plate is the basis of effective management in traffic, in license plate recognition, the automatic detection and localization of license plate is an important part. License plate detection and localization contain how to extract or segment the license plate region from the license plate image.

The system proposed by us involves automatic detection of vehicles that break the traffic rules. The vehicle number detected is searched in the database for type of vehicle and owner's information. This information is used to generate challan in the name of the person who owes the vehicle directly and instantly and send appropriate fine message to the owner.

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Abbreviations

OCR	- Optical Character Recognition
E-Challan	- Electronic Challan
API	- Application Programming Interface

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