AUTOMATIC NUMBER PLATE DETECTION

SYAMILY P S
Roll No.: S6-56
Department of Computer Applications
Rajiv Gandhi Institute of Technology, Kottayam

Automatic Number Plate Detection aims to recognize license number plates, the project could be useful for security, monitoring, e-challan, etc. In order to detect license number plates, we will use OpenCV to identify number plates and python pytesseract to extract characters and digits from the number plates.

OpenCV is an open-source machine learning library and provides a common infrastructure for computer vision. Whereas Pytesseract is a Tesseract-OCR Engine to read image types and extract the information present in the image. Deep learning is a branch of machine learning that uses several layers of nonlinear processing units for feature extraction and transformation. Each layer uses output from the previous layer as input.

Automatic Number plate Detection is a website that developed in html, css, bootstrap and javascript as front end and python Django frame work and MySQL as database back end.This project consist of modules : Admin Module,Staff Module.

Module Description

Admin

User registration(View/Edit/Delete)
Recognize license number plates
View the in and out of the vehicle with number of hours vehicle has been parked
View the details of the guest
Add staff details(view/Edit/Delete)
Maintenance fee collection
Add notice board

Bibliography

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