

Visveshvaraiyah Technological University, Belgaum



A
PROJECT REPORT
on

“LICENSE PLATE RECOGNITION USING C#”

**Submitted
by**

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ABSTRACT

License Plate Recognition systems are nowadays considered as off-the-shelf systems in the panorama of image and video processing applications. Existing vehicle number plate identification and recognition systems are potent for either their accuracy or speed but not a combination of both. License Plate Recognition (LPR) can be used to store the images captured by the cameras as well as the text from the number plate, with some configurable to store a photograph of the driver. Systems commonly use infrared lighting to allow the camera to take the picture at any time of the day. A powerful flash is included in at least one version of the intersection-monitoring cameras, serving both to illuminate the picture and to make the offender aware of his or her mistake. LPR technology tends to be region-specific, owing to plate variation from place to place.

This project deals with a suitably designed system that is being used to separate textual regions from graphics regions and locate textual data from Number Plates of vehicles. We presented a method based on edge detection to automatically locate text in some noise infected grayscale number plate images with microfilm format. The proposed method has been used to locate text in a group of number plate images with multiple layouts. Organizations that are responsible for fighting crime are setting more requirements for how they are able to retrieve information from their archived criminal number plates of vehicles. These requirements often include text extraction, extracted data to use with content aggregation tools, and ensuring image quality does not degrade over time. Software applications that extract numbers and text overcome one of the major problems organizations face when building document archives—documents locked as static images that leaves data inaccessible.