RNS INSTITUTE OF TECHNOLOGY

DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING

A Novel Approach for no Parking Detection using Machine Learning

In this work we introduced the concept No Parking Detection (N.P.D) which detects the vehicles parked at a no parking area and retrieve their respective vehicle number, required for the transport department to hold the records of the vehicles parked at no parking area which in the current scenario is happening manually which is a tedious process.

This project is intended to bring about a digitization in a public domain which would make it easier to detect the vehicles based on their parking information.

Python is an extensible language. Additional functionality (other than what is provided in the core language) can be made available through modules and packages written in other languages (C, C++, Java etc).

A standard DB-API for database connectivity has been defined in Python. It can be enabled using any data source (Oracle, MySQL, SQLite etc.) as a backend to the Python program for storage, retrieval and processing of data.

Standard distribution of Python contains the T kinter GUI toolkit, which is the implementation of popular GUI library called Tcl/Tk. An attractive GUI can be constructed using T kinter.

Many other GUI libraries like Qt, GTK, Wx Widgets etc. are also ported to Python. Python can be integrated with other popular programming technologies like C, C++, Java, ActiveX and CORBA.

It uses image processing and machine learning concepts to identify the vehicles and returns the vehicle registration number to carry on the consequent processes. This system is proposed for monitoring and imposing fine to vehicles that are parked in non-parking area via identifying vehicle license plate numbers. The only requirement of this system is installing special cameras for identifying license numbers on the no-parking area.

To detect the number plates of the vehicles standing at the no-parking area and creating a challan automatically without manual approach.

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