

Detect And Recognize Car License Plate from a Video in real time

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Requirements of the Project

OpenCV-python

IDE-Anaconda

Model-harcascade model

Steps for extracting the number plate from image:

- 1.Create the environment
- 2.Activate the environment
- 3.Install OpenCV
- 4.We have to write the code to first get the numberplate.

Explanation of the Code

1. For the first step we will import OpenCV and define the hardcoded path which clarifies the recognition of our number plates.

2. We have to set the height and width for the object to detect (here we have number plate) and also we should set the area.

Explanation of the Code

Now we have to run loop to capture the number plate

Convert the captured frame from color to grayscale

Set all the coordinates and calculate the area if the area we calculated is greater than the minimum area we will proceed and set the original coordinates around our rectangular number plate.

Next we will apply OCR technique to extract the alphabet from the captured number plate