**Number Plate Detection using EasyOCR and OpenCV**

This project detects Indian vehicle number plates from images using OpenCV and EasyOCR in Google Colab.

It uses a pre-trained Haar Cascade classifier to locate license plates and then extracts text using EasyOCR.

**Technologies Used**

- Python

- OpenCV

- EasyOCR

- Google Colab

**Dataset**

The dataset contains sample images of Indian vehicle number plates.

Store the images in your Google Drive under the following path:

/MyDrive/Indian\_Number\_Plates/Sample\_Images

**How to Run the Project**

1. Mount your Google Drive in Google Colab:

from google.colab import drive

drive.mount('/content/drive')

2. Load and analyze number plate images:

detected\_texts = analyze\_dataset(dataset\_path)

3. The program will display:

- Each processed image with detected plate highlighted

- Recognized number plate text below each image

**Example Output**

- Displays the input image with a green rectangle around the number plate.

- Prints the OCR-detected text beside each image.

**Dependencies**

Install EasyOCR in Colab using:

!pip install easyocr

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