

CAR NUMBER PLATE DETECTION



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Objective

- In today's date security is a big concern so keeping this in mind this project is car number plate detection. We will be able to extract the car license plate number, which we could use to find more details about the cars.

Technology used

Python

Pandas/NumPy

CNN

Transfer Learning

Resnet Model

Vgg16 Model

Who care

Polish

Society guard

Public Servelance

Data Information

- This dataset contains 433 images with bounding box annotations of the car license plates within the image. Annotations are provided in the PASCAL VOC format

Data exploration

- The image has label in different file of dataset so we assign each image with correct label.

Methodology used

- Vgg19 and Resnet50 model of Image net challenge has been used as these models are already trained over lots of images

Outcomes

- The result came out as
 - 1 VGG19 model is 77.15 accurate in number plate detection
 - 2 RESNET50 model is 62% accurate in number plate detection

Future Improvement

- If we add some more layer and try more hyper tuning the result could improve

Reference

<https://www.kaggle.com/datasets/andrewmvd/car-plate-detection>

<https://www.kaggle.com/code/aayusmaanjan/license-plate-detection>

Thank you!