EYE-SPY

We are everywhere!!

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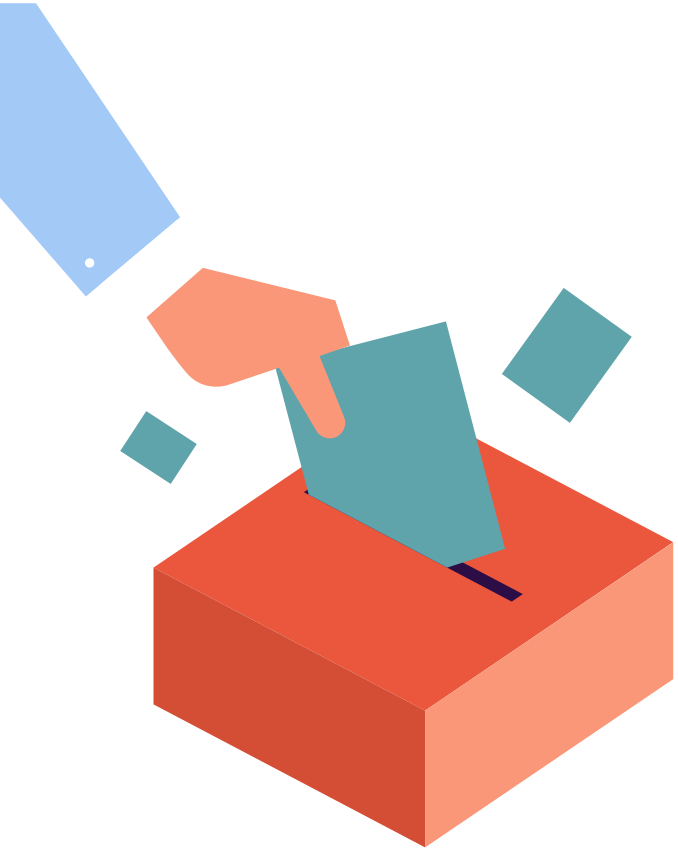


01

PROBLEM STATEMENT

PROBLEM STATEMENT

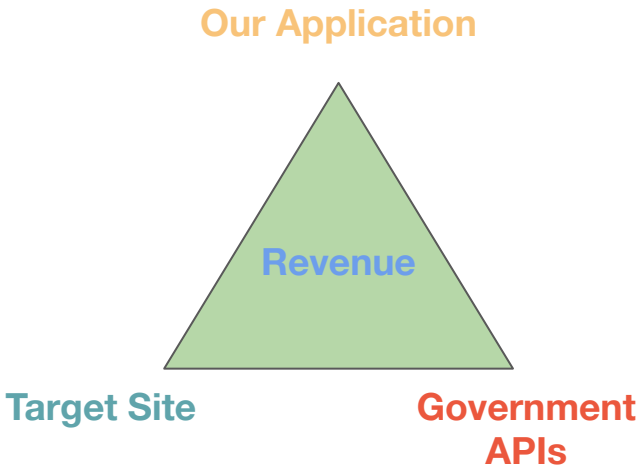
1. 2,17,68,502 units in fiscal year 2019-20.
2. 3L+ Challan Daily.
3. 25Cr worth of Challan.

02

Our Proposal

EYE-SPY

- Real time Number Plate Detection
  - Identification and pending dues of the vehicle
    - Automated Challan collection via application
      - Recurring Dataset

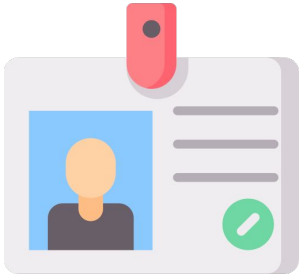


03

APPLICATION

Application

Ticketless Parking Management



Security & Identification

Automation

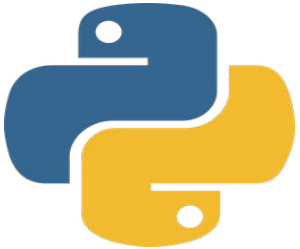
04

Tech Stack

Technical Stack

Jupyter Notebook

TensorFlow

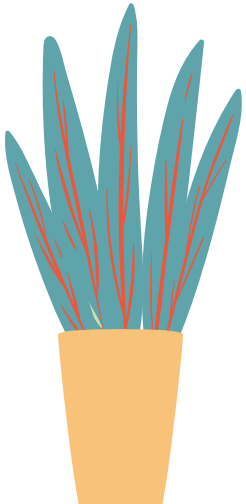


Python

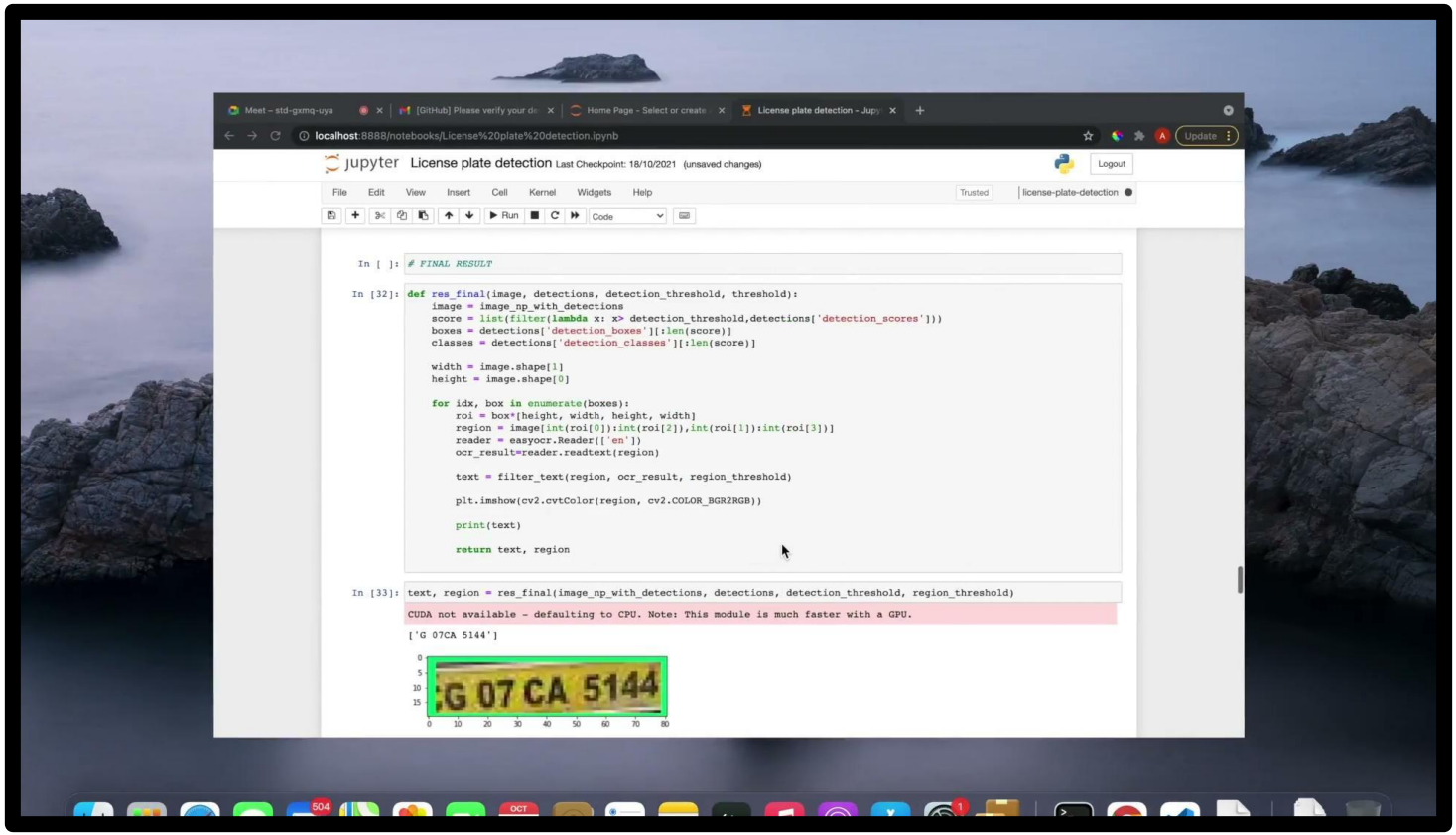
easyOCR

05

Working



Working


localhost:8888/notebooks/License%20plate%20detection.ipynb
jupyter License plate detection Last Checkpoint: 18/10/2021 (unsaved changes)
Logout
File Edit View Insert Cell Kernel Widgets Help
Trusted
license-plate-detection
Run
Code
In [ ]:
FINAL RESULT
In [32]:
def res_final(image, detections, detection_threshold, threshold):
image = image_np_with_detections
score = list(filter(lambda x: x> detection_threshold,detections['detection_scores']))
boxes = detections['detection_boxes'][:len(score)]
classes = detections['detection_classes'][:len(score)]
width = image.shape[1]
height = image.shape[0]
for idx, box in enumerate(boxes):
roi = box*[height, width, height, width]
region = image[int(roi[0]):int(roi[2]),int(roi[1]):int(roi[3])]
reader = easyocr.Reader(['en'])
ocr_result=reader.readtext(region)
text = filter_text(region, ocr_result, region_threshold)
plt.imshow(cv2.cvtColor(region, cv2.COLOR_BGR2RGB))
print(text)
return text, region
In [33]:
text, region = res_final(image_np_with_detections, detections, detection_threshold, region_threshold)
CUDA not available - defaulting to CPU. Note: This module is much faster with a GPU.
['G 07CA 5144']
G 07 CA 5144

THANKS!

Do you have any questions?

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Jaswant Kondur - BT19GCS152

Synopsis Link :
https://docs.google.com/document/d/1QqtkBPSJMZADEwv7YeN52jPzEWNh44MatikUGQiUhb0/edit?usp=sharing