

SUMMER INTERNSHIP REPORT

— MCA 1ST YEAR, 2ND SEMESTER



ABOUT INTERNSHIP :

- **Student Name:** Y. Narmadha
- **Roll Number:**
- **Internship Organization:** *Renu Sharma Foundation*
- **College:** Siddhartha Institute of Technology & Sciences (SITS), Ghatkesar, Hyderabad
- **College Website:** <https://Siddhartha.co.in/>
- **Duration:** 29th NOVEMBER 2024 to 1st March 2025 (3 Months)
- **Mentor :** ANKITH SHARMA

INTERNSHIP REPORT RENU SHARMA FOUNDATION

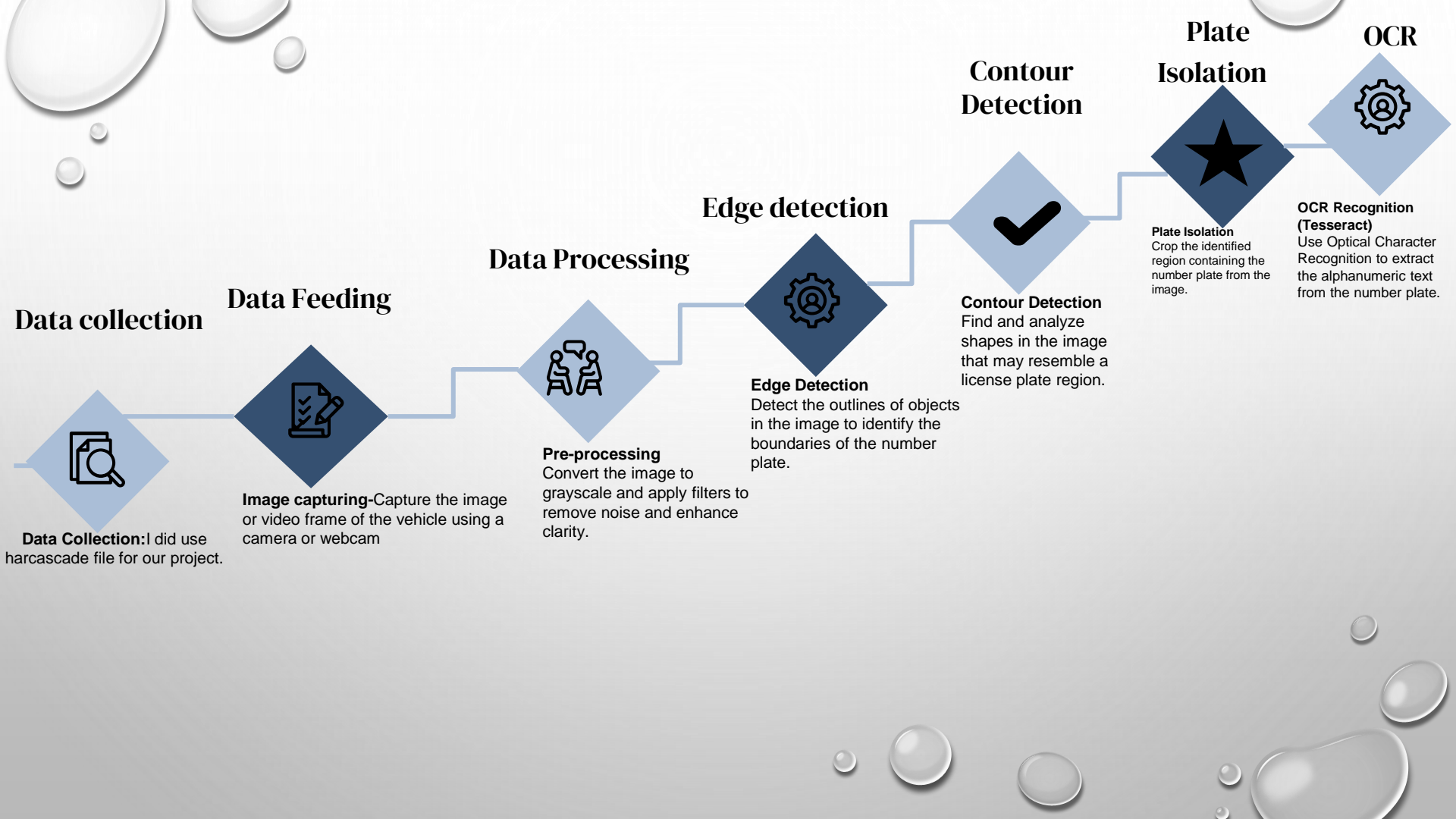
- **ORGANIZATION:** RENU SHARMA FOUNDATION
- **NATURE:** VOLUNTARY TECHNICAL INTERNSHIP
- **PROJECT:** CAR NUMBER PLATE RECOGNITION USING PYTHON AND OPENCV
- **MINOR PROJECT:** DATA COLLECTION AND REPORTING USING POWER BI/TRADING STRATEGY ANALYSIS.

MAJOR PROJECT OVERVIEW :

- Title:** Car Number Plate Recognition
- Technologies Used:** Python, OpenCV, NumPy, Image Processing, OCR
- Goal:** Automatically detect and recognize vehicle number plates from images or live video feed and we can save the images into an excel sheet

MAJOR PROJECT OVERVIEW :

- Image acquisition
- Pre-processing
- Edge detection
- Contour detection
- Plate isolation
- OCR recognition



```

plate_cascade = cv2.CascadeClassifier(harcascade)
img_gray = cv2.cvtColor(img, cv2.COLOR_BGR2GRAY)
plates = plate_cascade.detectMultiScale(img_gray, 1.1, 4)

for(x,y,w,h) in plates:
    area = w*h

    if area > min_area:
        cv2.rectangle(img, (x,y),(x+w,y+h),(0,255,0), 2)
        cv2.putText(img,"NUMBER PLATE",(x,y-5),cv2.FONT_HERSHEY_COMPLEX_SMALL, 1, (255,0,255), 2)

        #img_roi = img[y: y+ h,x: x+w]
        #cv2.imshow("ROI", img_roi)
        img_roi = img[y:y + h, x:x + w]
        cv2.imshow("ROI", img_roi) # Show the ROI'''

cv2.imshow("Result",img)

if cv2.waitKey(1) & 0xFF == ord('s'):
    cv2.imwrite("plates/scaned_img_" + str(count) + ".jpg", img_roi)
    cv2.rectangle(img, (0,200), (640,300), (0,255,0), cv2.FILLED)
    cv2.putText(img, "Plate Saved", (150, 265), cv2.FONT_HERSHEY_COMPLEX_SMALL, 2, (0, 0, 255), 2)
    cv2.imshow("Results",img)
    cv2.waitKey(500)
    count += 1

```

SAVING NUMBER PLATE :



MINOR PROJECT:

- **TITLE:** DATA ANALYTICS – POWERBI TRADING STRATEGY ANALYSIS.
- **TOOLS USED:** POWER BI, EXCEL

- **OVERVIEW:**

COLLECTED DATA SETS AND DEVELOPED INTERACTIVE REPORTS AND DASHBOARDS FOR BETTER DECISION-MAKING AND VISUAL ANALYTICS USING POWER BI.

PROCEDURE :



THIS POWER BI PROJECT ANALYZES TRADING STRATEGIES USING THREE DATASETS, COMBINING THEM INTO A UNIFIED TABLE WITH STRATEGY LABELS. IT VISUALIZES KEY METRICS LIKE TOTAL PNL, WIN/LOSS COUNTS, CUMULATIVE PNL, AND TRADE TRENDS. USERS CAN DRILL THROUGH STRATEGY DETAILS, FILTER BY DATE, AND EXPLORE INSIGHTS INTERACTIVELY. 🚀

DASHBOARD

Entry_date

- ☐ 01-01-2024 00:00:00
- ☐ 02-01-2024 00:00:00
- ☐ 03-01-2024 00:00:00
- ☐ 04-01-2024 00:00:00
- ☐ 05-01-2024 00:00:00
- ☐ 08-01-2024 00:00:00

LOSS COUNT

611

CUMULATIVE pnl

0.52

CumulativePnl

symbol	entry_type	exit_datetime	entry_datetime	Sum of pnl
AARTIIND	buy	1/23/2024 10:15	1/19/2024 12:15	0.00
AARTIIND	buy	1/5/2024 14:15	1/5/2024 10:15	0.00
AARTIIND	sell	11/11/2024 15:10	11/11/2024 10:05	0.00
AARTIIND	sell	2/2/2024 12:15	2/2/2024 10:15	0.00
AARTIIND	sell	2/27/2024 15:10	2/27/2024 10:05	0.00
AARTIIND	buy	3/1/2024 15:10	3/1/2024 9:50	0.00
AARTIIND	buy	4/15/2024 10:15	4/10/2024 14:15	0.00
Total				0.52

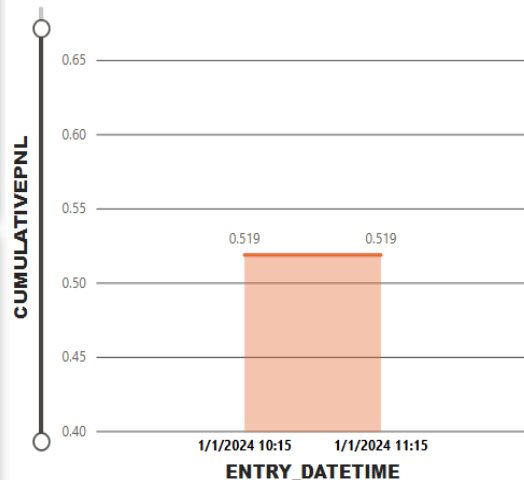
TotalPnL by Strategy_Name

0.14

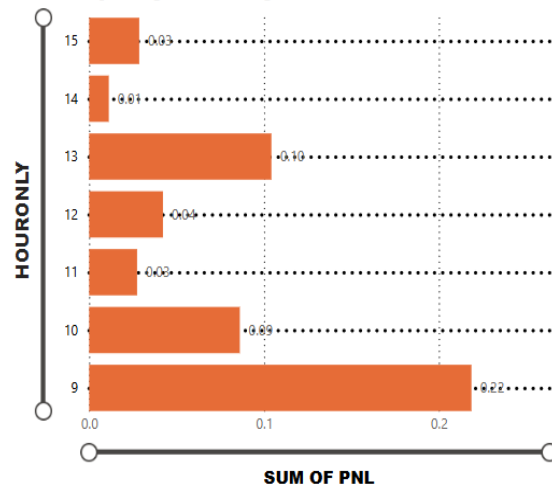
WinCount by Strategy_Name

369

CumulativePnL by entry_datetime




Sum of pnl by HourOnly






LEARNINGS :

- TECHNICAL:
 - PYTHON, OPENCV
 - POWER BI DASHBOARDING
 - SOFT SKILLS:
 - TEAM COLLABORATION
 - TIME MANAGEMENT
 - REPORT CREATION
- 



OUTCOME & IMPACT :

- ENHANCED REAL-WORLD SKILLS IN IMAGE PROCESSING AND DATA VISUALIZATION
 - CREATED END-TO-END WORKING PROTOTYPES
 - GAINED EXPOSURE TO NGO OPERATIONS VIA RENU SHARMA FOUNDATION
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CERTIFICATE :



Renu Sharma Healthcare and Education Foundation

Approved by NITI Aayog
Accredited to NGO DARPAN

CERTIFICATE OF COMPLETION

IT IS CERTIFIED THAT

NARMADHA YESHABOUDA

Has completed the internship program from **29 November 2024 to 1 March 2025** as a intern
of Data Analysis Department in **Renu Sharma Healthcare and Education Foundation.**

CO-Founder
Minakshi Sharma



FOUNDER
NEHA SHARMA



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CONTACTS & LINKS:

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- **LinkedIn:** <https://www.linkedin.com/in/narmadha-yeshabouda-250931287>
- **GitHub:** <https://github.com/Narmadha21art>