

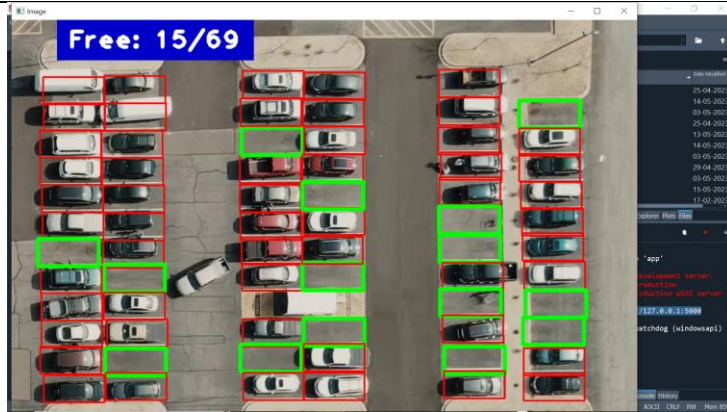
Project Development Phase

Model Performance Test

Date	19/May/2023
Team ID	NM2023TMID19278
Project Name	AI Enabled Car Parking Using OpenCV

Model Performance Testing:

Project team shall fill the following information in the model performance testing

S.No.	Parameter	Values	Screenshot
1.	Model Summary	<p><u>Parking Space Detection:</u></p> <p>By leveraging the contour detection capabilities of OpenCV, we detected and extracted the individual parking spaces in the video feed. This segmentation process allowed us to precisely determine the boundaries of each parking spot.</p>	 A screenshot of a parking lot from a high-angle camera. The image shows several rows of cars parked. Red and green rectangular boxes are overlaid on the image, indicating detected parking spaces. A blue banner at the top left of the image area displays the text 'Free: 15/69'. To the right of the image, a portion of a software interface is visible, showing a list of dates and a terminal window with some text.

2. Accuracy

Training Accuracy -

Calculating the ROI width and height (manually width and height are calculated and given as 107 & 48).

An empty file parkingSlotPosition is created to save all the ROI values. Try and except combo is used.

In Python, try and except are used for error handling, to catch and handle exceptions that may occur during program execution. The try block is used to enclose the

code that may raise an exception, and the except block is used to define what should happen if an exception is raised.

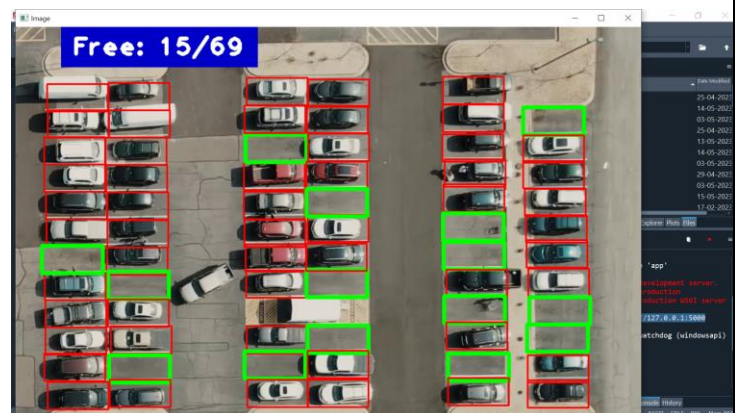
```
# Define the width and height of ROI
width, height = 107, 48
# Creating an empty file and loading to a variable & Creating an empty list
try:
    with open('parkingSlotPosition', 'rb') as f:
        posList = pickle.load(f)
except:
    posList = []
```

Validation Accuracy –

To calculate accuracy, you can use the following formula:

Accuracy = (Number of correctly classified samples) / (Total number of samples)

Accuracy = (15) / (69)



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Written and submit by.

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