Segmentation module for autonomous car

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Weekly Report for 22nd March - 3rd April

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Overview

This is a report of the Segmentation module for autonomous car. This contains the progress made by me on the project in the week of 22nd March - 3rd April.

Progress made

1) Learnt about open source libraries

Learnt about the open source libraries and the various computer vision models provided by these. Employed 'CenterNet HourGlass104 Keypoints 512x512' computer vision model for the prediction of the cars parked near the ESB.

2) Prediction of the cars

Took some pictures of the cars parked near the ESB block from my mobile. Used the object detection algorithm to test over the pictures taken. The code for the model could be found here. Below, I illustrate the pictures with the predictions

Picture 1

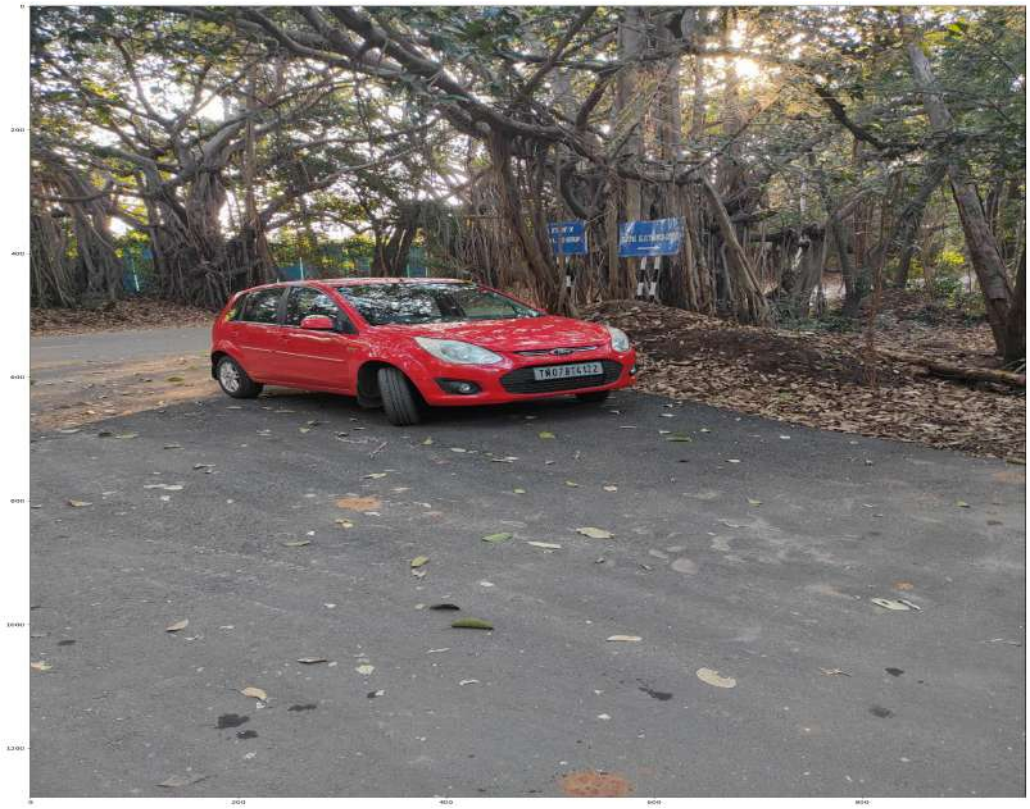

Figure 1: Image of the car

Prediction

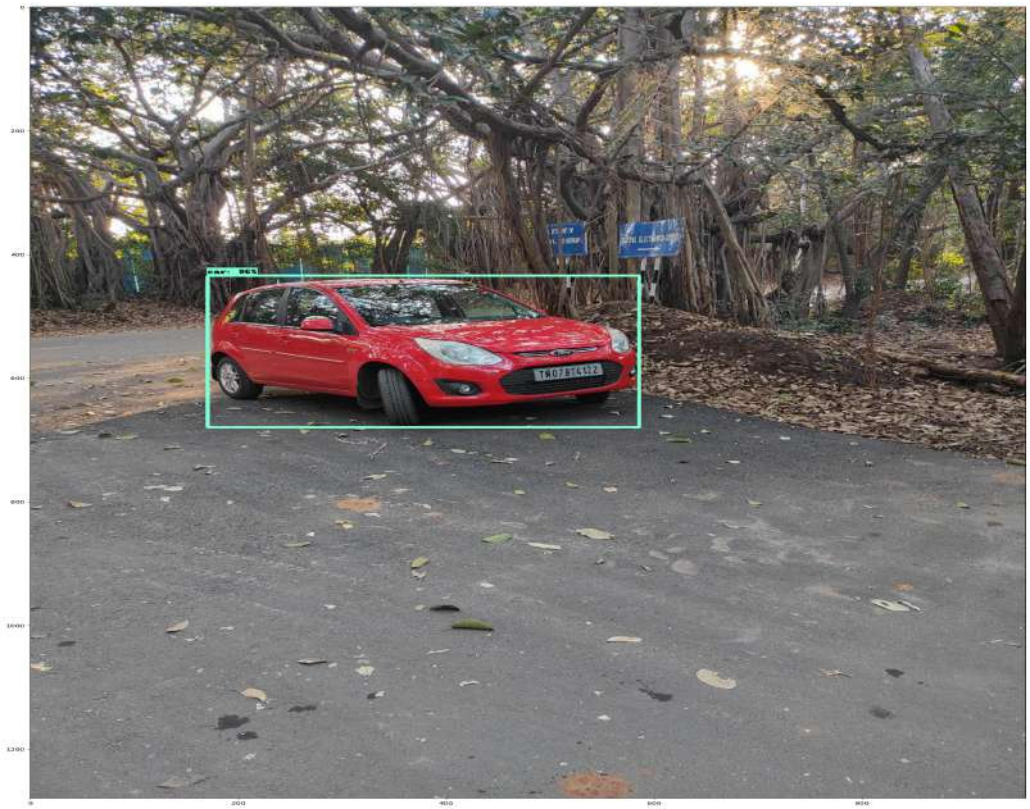

Figure 2: Prediction

Picture 2

Figure 3: Image of the car

Prediction

Figure 4: Prediction

Picture 3

Figure 5: Image of the car

Prediction

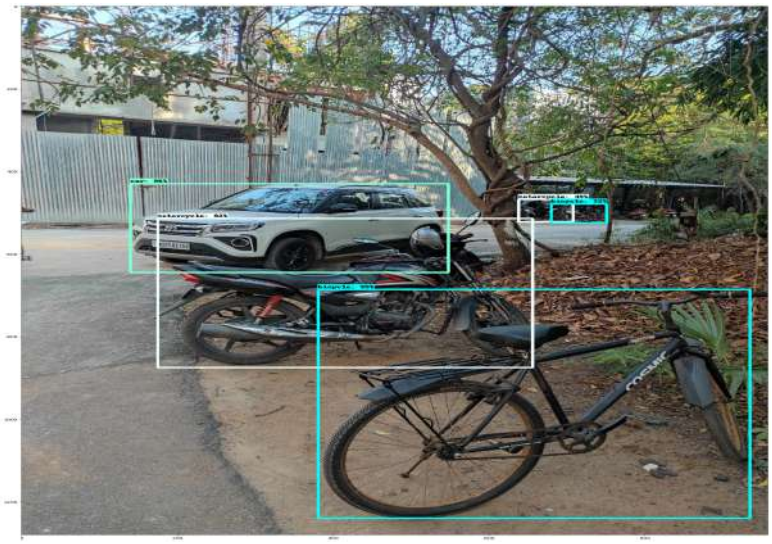

Figure 6: Prediction

Picture 4

Figure 7: Image of the car

Prediction

Figure 8: Prediction

Picture 5

Figure 9: Image of the car

Prediction

Figure 10: Prediction

Picture 6

Figure 11: beach

Prediction

Figure 12: Prediction

Time track

The time track of the project is as follows

1. Learning about open source libraries (8 hours)
2. Learning about algorithm(3 hours)
3. Training and testing the model(3 hours)
4. Report Writing (2 hours)

THE END

THANK YOU
