[Face detection]

[Activity Report No.2]

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[In this report I will present you the how I have successfully achieved to train my algorithm in detecting layers and traffic signs. Until the end of the next deadline I will have a functional algorithm for detecting faces.]

[Face Detection]

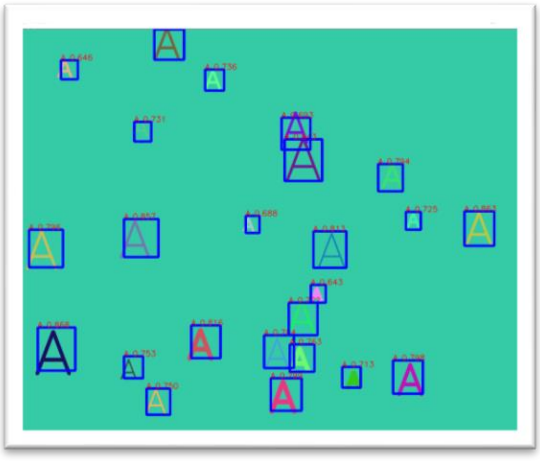
[Activity Report]

What's new since last time?

Since last time I have successfully implemented the interpretation graph of the algorithm. The next step would be to train the algorithm. For that I have written a "Data generator" which reads the data from folders, preprocess them and feed the data to the training component. After properly configuring the hyperparameters and parameters for training the detector successfully worked on 2 datasets.

Results

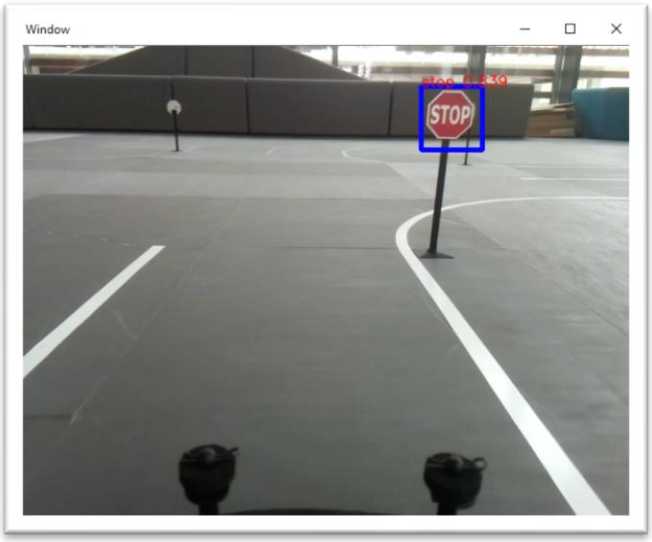
For the letter dataset generated by me I have attached a sample below. The network was trained on 10k images without any data augmentation for 3 generations:



For traffic sign detection, I have used a dataset containing just to types of signs Stop and Parking sign. The images were taken from a toy car. The corpus contained only 600 images and training was done without any data augmentation.

[Project Roadmap]

- Research
- Training on dummy dataset
- Training on a face dataset
- Deploy application



Implementation

The implementation can be found on the github repository.

Next goal:

The next goal will be to train the model on a face dataset. I have already found one called Wired dataset.