

Object Detection Project

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Project Description:

This Project uses the MTCNN for face detection and Cascade Classifier for Eye Detection.

For using cascade classifier, the frame must be converted to gray scale image.

I implemented two cascade classifier model to detect eyes that was missed during first classifier.

Classifier Hyperparameter:

Cascade classifier - 1	scaleFactor = 1.3 minNeighbors = 7 flag = 0 cv2.CASCADE_SCALE_IMAGE minSize = (10,10)
Cascade classifier - 2	scaleFactor = 1.04 minNeighbors = 5 flag = 0 cv2.CASCADE_SCALE_IMAGE minSize = (10,10)

Number of Detections = 21