

## **REPORT FOR CS 6384.001 - PROJECT 2**

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### **Explanation of decisions made:**

Different haar-cascade classifiers were tested and the ones giving the best results were chosen (haarcascade\_frontalface\_alt2, haarcascade\_eye). Similarly, different values of the parameters of the classifiers like scaleFactor, minNeighbors, minSize were tested and the best chosen.

The eye detector was applied only to the portion of the face where eyes are expected to be.

Median blur smoothing technique was used to pre-process the images in DetectWink2.py.

**Description of results:** A blue rectangle over the face if the wink is detected. Otherwise a green rectangle over the face. A red rectangle over each eye detected.

**Description of files:** DetectWink1.py & DetectWink2.py are the two program files as required.