## Face and Eye Detection

**Goal**

* Face detection using Haar Feature-based Cascade Classifiers (haarcascade\_frontalface\_default).
* Extend the same for eye detection(haarcascade\_eye)

**Basics**

Object Detection using Haar feature-based cascade classifiers is an effective object detection method proposed by Paul Viola and Michael Jones in their paper, "Rapid Object Detection using a Boosted Cascade of Simple Features" in 2001. It is a machine learning based approach where a cascade function is trained from a lot of positive and negative images. It is then used to detect objects in other images.