**COLOR DETECTION USING**

**OPENCV & NUMPY**

**Abstract :**

* The main objective is to develop a prototype which can detect different colors by using the fundamentals of computer vision.
* Initially we train an image in which we need to detect the color.
* HSV conversion – black & white mask – color mask.
* Tracebars are created & used for setting the respective values of color to be detected.
* Hue, saturation, value are used for detecting color.

**Color detection :**

* A color detection algorithm identifies pixels in an image that match a specified color or color range. The color of detected pixels can then be changed to distinguish them from the rest of the image.
* The array of boxes used for representation of an object is known as “PIXEL”
* Color image = Red \* Green \* Blue (RGB).