

# CSE-444 Pattern Recognition Project Proposal

## Group 3

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### **1 Face recognition for blind people**

Face recognition using Bayes classifier algorithm for blind . We will use a camera which will recognize face using previously saved information about face and if camera can recognized the face it will generate a signal so that blind can understood that person standing outside of the door is one of his/her relatives. On the other hand if camera can not recognize the face it will generate another kind of signal so that user can understand that they should not open the door because it can be harmful for them.

### **2 Color recognition for color blind people**

RGB Color Recognition for color blind using K-nearest neighbor classification algorithm. Colour blindness is the decreased ability to see colour or differences in colours. Here colored images will be taken as input and it will produce the percentage of the basic colors (R-red,G-green and B-blue) and it will also inform the color blind about the real color of that object. It will also give the necessary details by the combination of the colors in percentages.

### **3 Attendance using finger print recognition**

Fingerprint recognition refers to the automated method of identifying or confirming the identity of an individual based on fingerprints.By using Bayes

classifier algorithm we want to make a software that will take attendance of MIST students. When any student will enter MIST he/she will give his/her finger print and he/she will be present for that day.

## **4 Detecting edited images**

With the help of K-nearest neighbor classification algorithm we will detect edited parts of an input image. This will help us to detect the real image.