Gender Identification

Aatman Dholakia, *1401013*, Rajat Barot, *1401045*, Charvik Patel, *1401079*, Anuj Shah, *1401084*

***Abstract*—Machine Learning is being used widely in diverse areas such as fraudulent systems, recommender systems, disease prediction, etc. One such application is gender identification which is exploited in this paper. For gender identification it is necessary to extract features of face. The proposed algorithm for the same would be YCbCr color space to detect the skin regions in the color image. For facial feature extraction we use Gabor filters at five scales and eight orientations. To solve classification problem we use Adaboost, SVM based classifier.**

***Index Terms*—Face Detection, Gender Identification, Gabor Filter, Ada-Boost, SVM, Machine learning, classification algorithm**

I. Introduction

Gender Identification has become area of extensive research due to it's increasingly powerful applications. Moreover augmenting it in real time scenario can be useful in many applications in many fields. A successful gender classification could have great impact in improving human computer interactions. Practically it is imperative to improve the algorithms from time to time in order to achieve higher accuracy levels and build more accurate and robust systems.

References