**ABSTRACT**

The face recognition is one of the biometric methods to identify individuals by features of the face. A complete face recognition includes two patterns of face detection and face recognition. And these can be achieved using machine learning techniques. A problem of personal verification and identification is an actively growing area of research and security areas. Wide Resnet (WRN) classifier and Binary Classification is used for age and gender classification. Image processing is a method to perform some operations on an image, in order to get an enhanced image or to extract some useful information from it. It is a type of signal processing in which input is an image and output may be image or characteristics/features associated with that image. Nowadays, image processing is among rapidly growing technologies.

It forms core research area within engineering and computer science disciplines too. Image processing is of two types namely digital and analog. In this system we are using digital image processing. Facial features are considered as high level personal trait in the field of security, law enforcement application and attendance systems. Certain applications uses facial features to unlock and to detect the right person identification. Irrespective of age and position of an individual the gender of an individual has to be detected. The main problem in detection of faces is inappropriate dataset of training examples which may lead to less accuracy.

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MADHURI M G

MAYANK KHERIA

PAREESHMA P K

MADHURA J