**VIDEO BASED DYNAMIC FACE RECOGNITION**

The issue of security using CCTV cameras fixed for spying in most of the public places like supermarkets, malls, offices, etc., it becomes quite tedious to identify each person in the case of any emergency during entry / exit into restricted places inside the building. So, in our system we register pictures of authorized people and we assume those to be our data sets. Built using Python, we establish the unknown faces in the form of suspects. Since the known faces are already registered in the database, we need to skip them and find those who are new to our camera technically. If a new person is found new to our system, he can also enrol himself in the system using keyboard input ‘e’. We detect faces by splitting the video file into frames and three snaps are stored for each person by the system. Although, face recognition provides enough information to retrieve for further moves based on the domain’s requirements, it is vivid that it recognises only registered faces and doesn’t alert or provide warning based on new entries. The database, built-in libraries and facial cameras are coupled to provide an optimized picturization of a human’s face with an optimal number of snaps. Thus, we propose this application to provide more authenticated tracking of humans to ensure safety and security for both the commoners and officials.

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