# ABSTRACT

Nowadays, Closed Circuit Television cameras are installed everywhere in public places to monitor illegal activities like armed robberies. Mostly these footages are used as post evidence after the occurrence of crime. In many cases a person might be monitoring the scene from but the attention can easily drift on prolonged observation.

Efficiency of these types of surveillance can be improved by in- corporation of image processing and object detection algorithms into monitoring process.

The object detection algorithms, previously implemented in video analysis detect pedestrians, animals and vehicles. These algorithms can be extended further to detect a person holding weapons like firearms in public or restricted places.

Therefore, the objective of this project is to visually detect firearms in real time videos. This project helps to detect weapons via object detection algorithms which can have various real time applications such as detection of weapons. It can be integrated into surveillance cameras.

The main motive of this project is to safe guard people from threats by warning them if something suspicious is detected. We can do this by providing a notification message to the user whenever an object of interest is detected. It is a system that helps in reducing the crime rate by providing proper surveillance and notifying the relevant authorities resulting in reduced response time which will gradually reduce the crime rate.

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