

Project Title: Framework system to reduce criminal activities

TEAM NO.:192

NAMES OF THE STUDENTS PARTICIPATED IN THE TEAM:

1. AKANKSHA KAILASH PATIL, 2. VISHAL KUMAR SINGH

COLLEGE: SRM UNIVERSITY AP

SEMESTER: 5TH

DEPARTMENT: COMPUTER SCIENCE

CITY: AMARAVATI

STATE: ANDHRA PRADESH

PROJECT MENTOR NAME: ABDUL AZIZ MD.

Project Details:

Our proposed project is a fully automated computer based framework which detects and predicts crime . Our proposed system will help the whole human kind

Problem Statement:

Our main agenda is to make **crime predictable in advance** in order to reduce the life threatening risks and damages cost to human lives

Need of Project:

In today's world the number of death cases due to firearm related weapons, knives, rifles have increased a lot and there is no such framework available which will detect and predict the crime in advance in order to prevent it. Today's world has a extreme need for a common framework system where the possibility of certain happening of crime can be detected way before the crime is even occurred.

Proposed Solution:

- Our Solution is to create a Technology framework automated system which can act as the first respondent's system to various stakeholders.
- It can detect weapons well in advance.
- And on basis of it, we predict the possibility of crime
- It can prevent manslaughter or mass killing and avoid the risk to human life.
- Benefits the whole human kind and makes lives easier and safe

Technology Used:

Artificial Intelligence and Machine Learning

Project Outcomes:

It can detect the weapons and can prevent the crime well in advance. It saves human lives and is beneficial to whole human kind

Modelling:

We have used machine learning based model- YOLO V5 (You Only Look Once) Model for Object detection using Deep learning techniques on the customized dataset

Results:

Detects weapon in videos, webcam and creates alarm as soon as it detects it, Also send the SOS message to the phone

https://drive.google.com/file/d/1vPhVWtcq-gduc9Sotn3lf_FoixY5J5FI/view?usp=sharing

Future scope for project enhancement:

- Can provide location details with ways to reach the location faster also being sent to relevant stakeholders
- Face detection to record the facial details of the possible homicide.
- Based on facial expressions, increase the predictive capability of crime detection.
- Contact to nearest hospital.