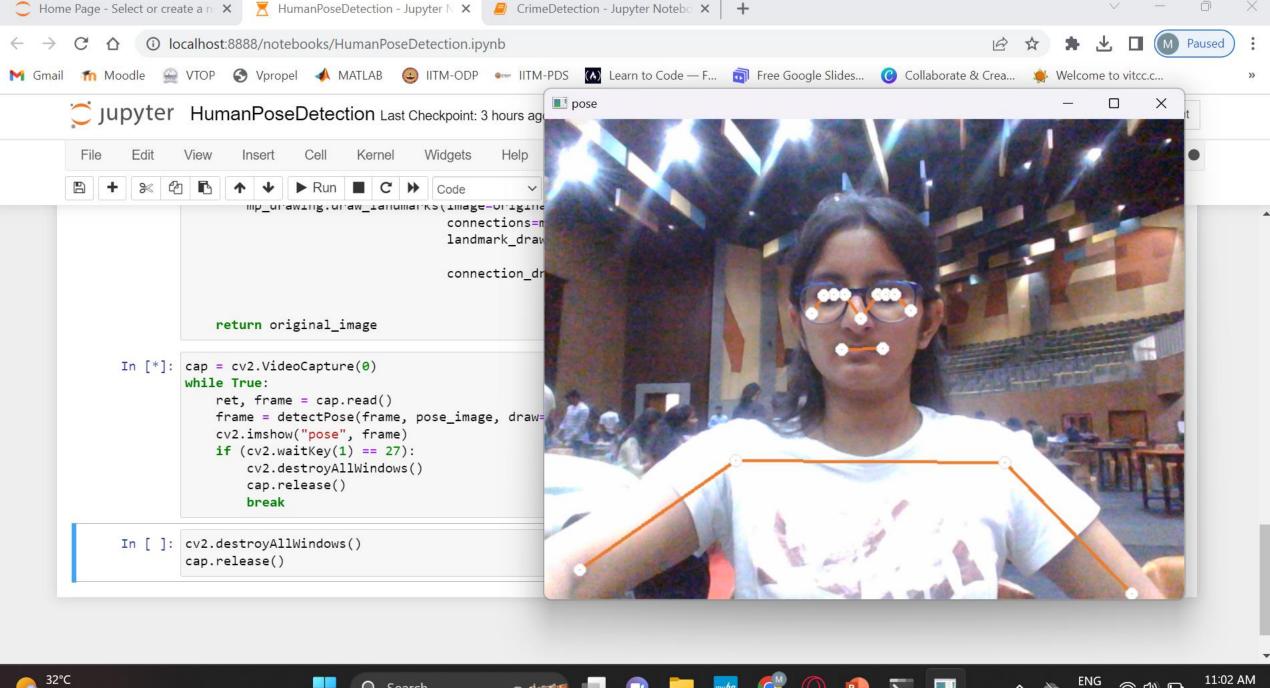
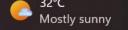
## KVH-009: ADVANCED CCTV ANALYTICS SOLUTION VIDEO ANALYTICS/CCTV

**TEAM ANZEN** 

## HUMAN POSE ESTIMATION

DETECTS THE POSTURE/BUILD OF THE HUMAN BODY TO IDENTIFY PERSONS WITHIN THE CCTV FOOTAGE



























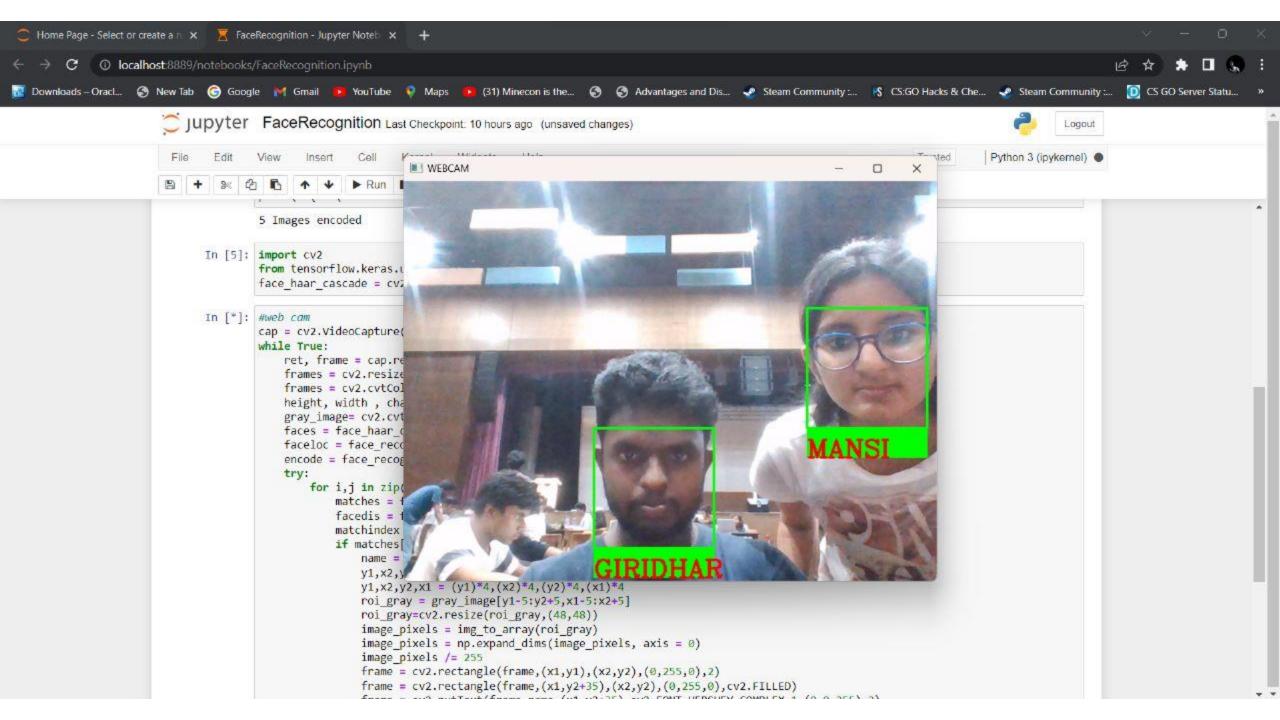






## FACE RECOGNITION

IDENTIFIES THE FACE OF THE CRIMINAL/PERSON AND NAME FROM THE LIVE-CCTV FOOTAGE

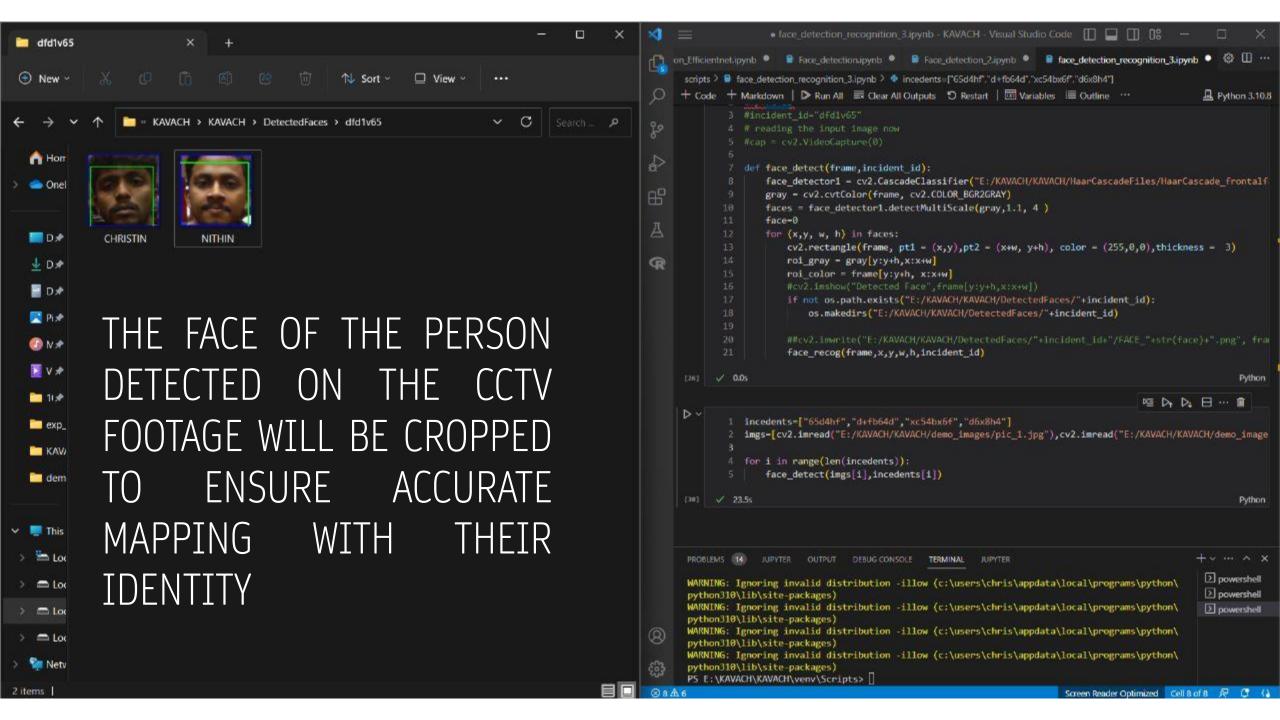


# FACE DETECTION AND RECOGNITION

CROPS THE DETECTED FACE AND MATCHES THE IDENTITY OF THE PERSON WITH THE NAME STORED IN THE DATABASE

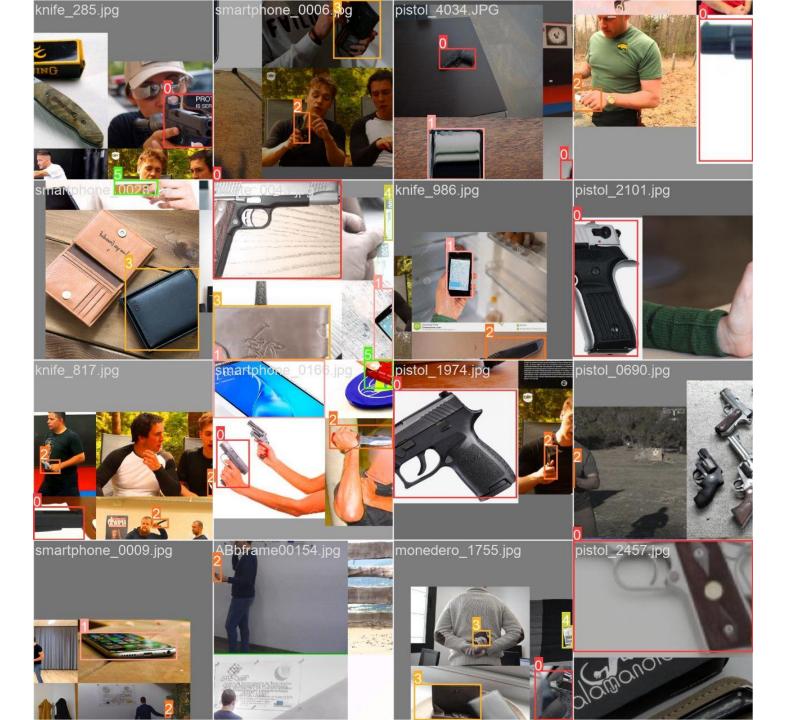


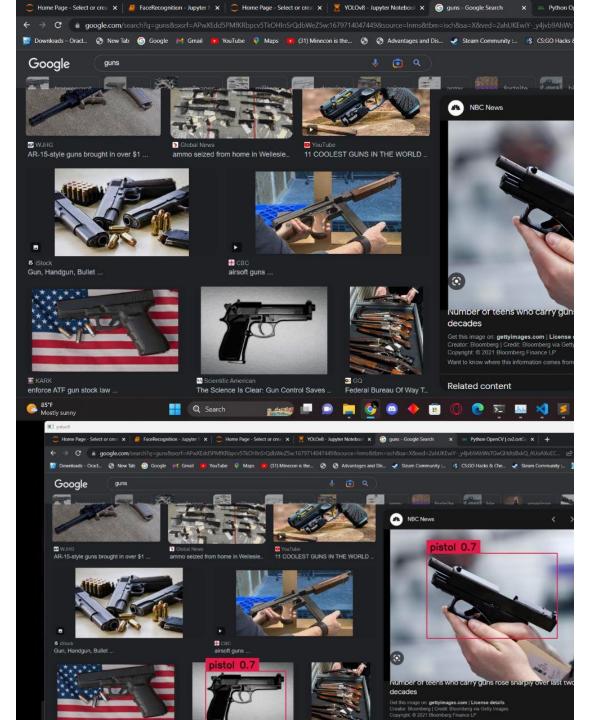


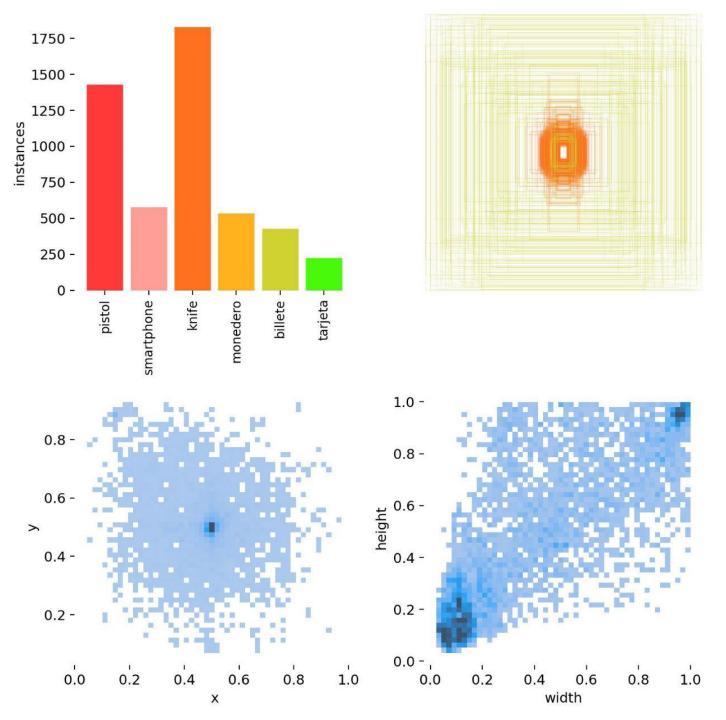


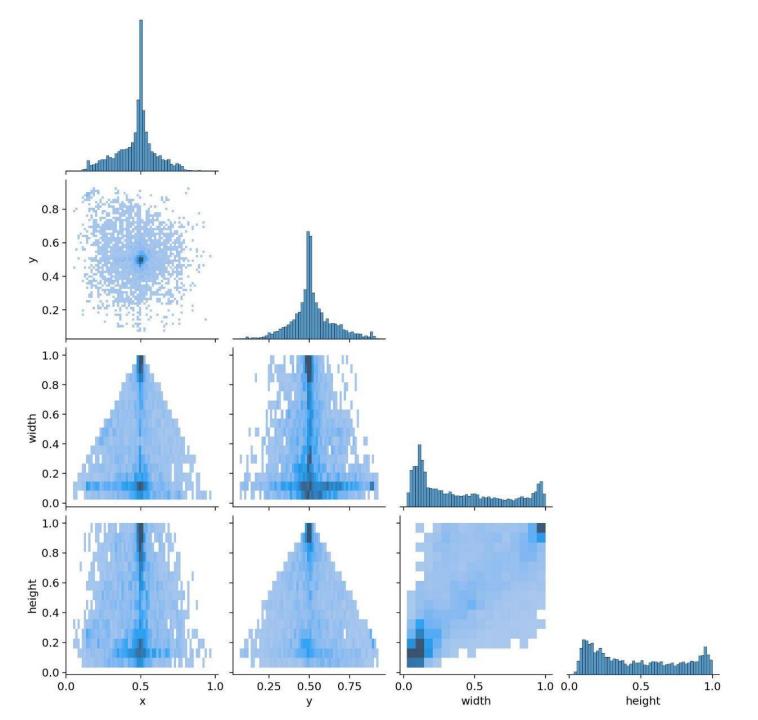
### WEAPON DETECTION

IDENTIFIES AND HIGHLIGHTS ANY WEAPONS WIELDED BY THE PERSON IN THE LIVE-FOOTAGE









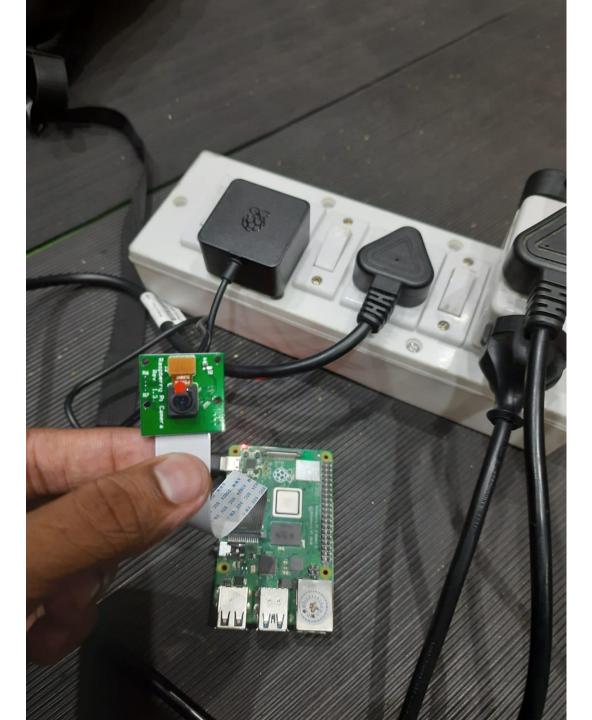
## CRIME DETECTION

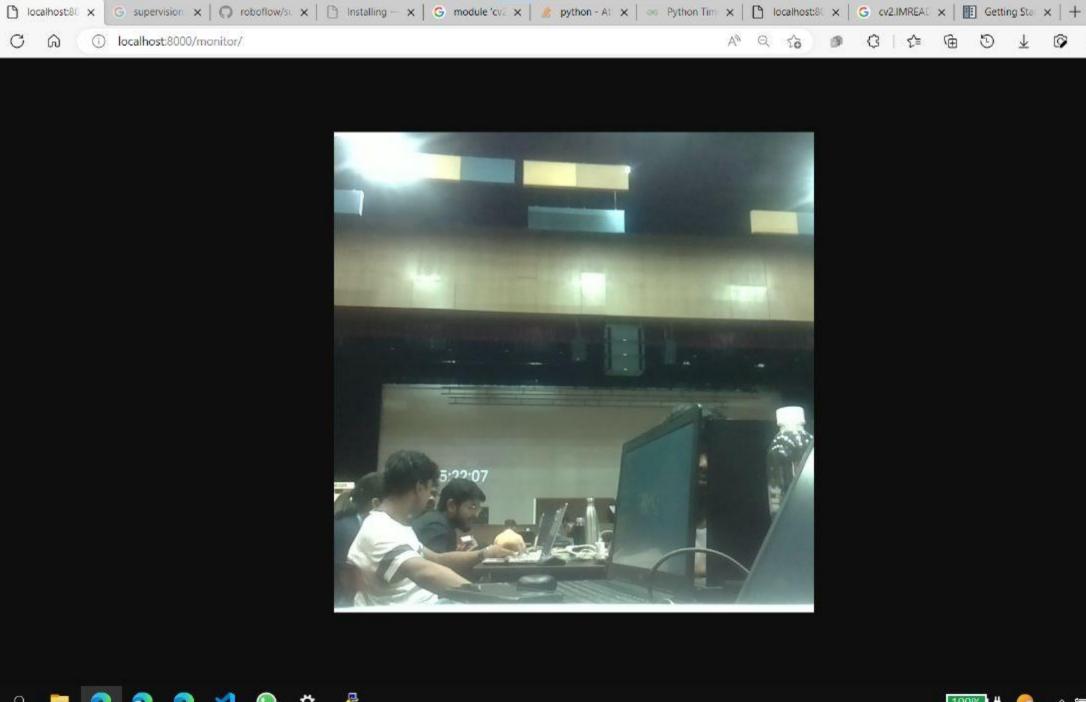
CAPTURES THE FRAMES FROM THE CCTV FOOTAGE AND CLASSIFIES INTO THE TYPE OF CRIME COMMITTED

FOR THE PURPOSE OF THIS PROTOTYPE, WE HAVE INTEGRATED THE DEEP LEARNING MODEL WITH RASPBERRY PI AND PYCAM, WHICH MIMICS THE FUNCTIONALITY OF A CCTV CAMERA.

THIS HARDWARE INTERFACING ENABLES LIVE-FOOTAGE CAPTURE WHICH IS THEN SENT TO TWO DIFFERENT MODELS:

- 1. A DEEP CONVOLUTIONAL NEURAL NETWORK MODEL FOR CRIME CLASSIFICATION
- 2. A YOLOV8 MODEL FOR ARMS DETECTION







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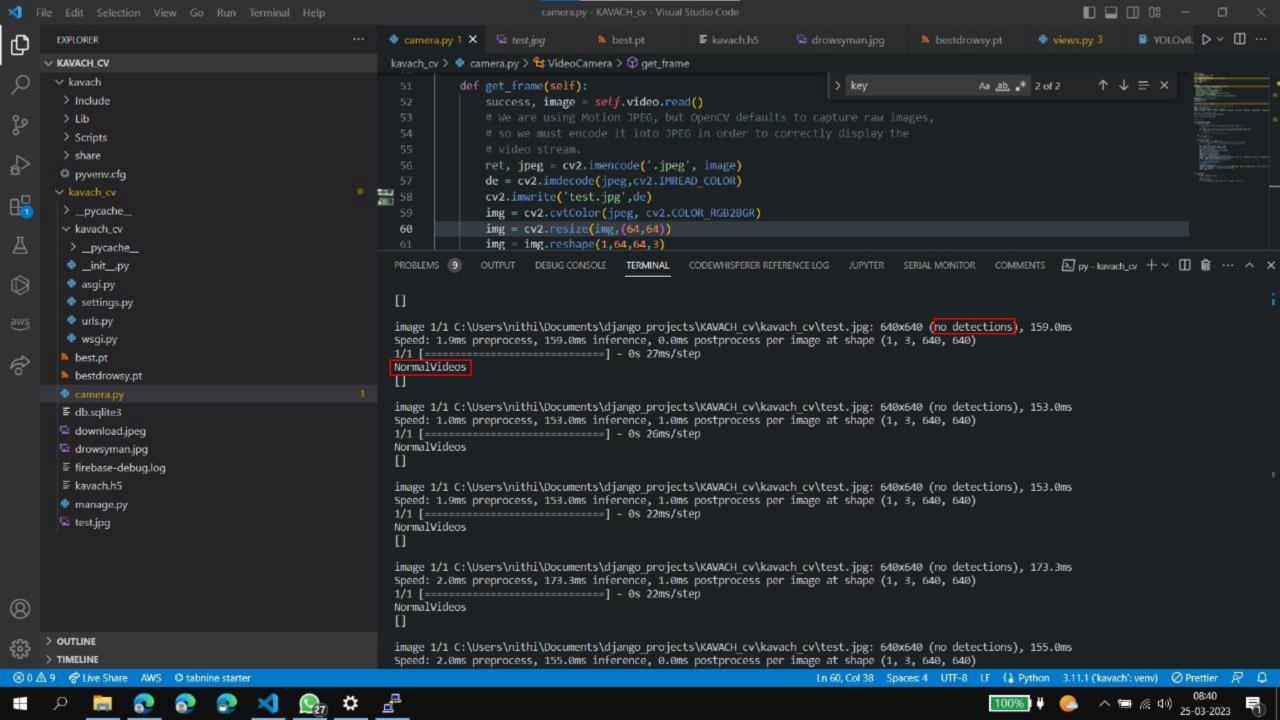


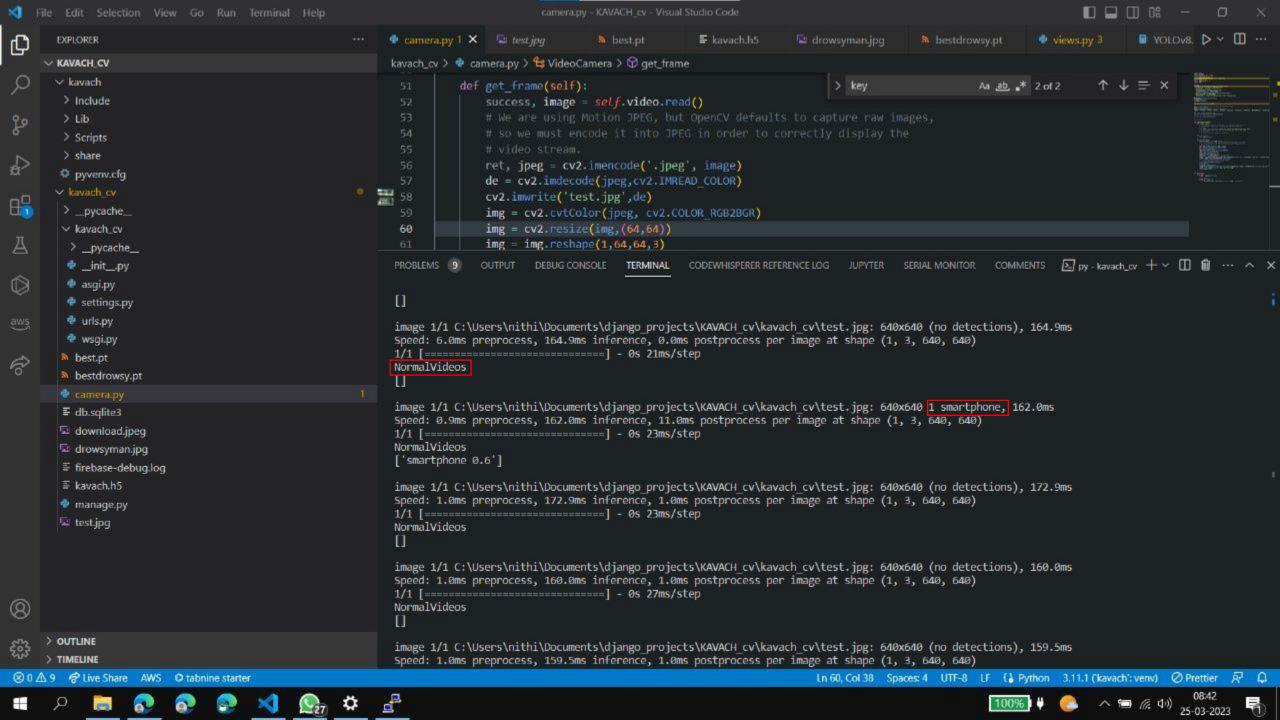












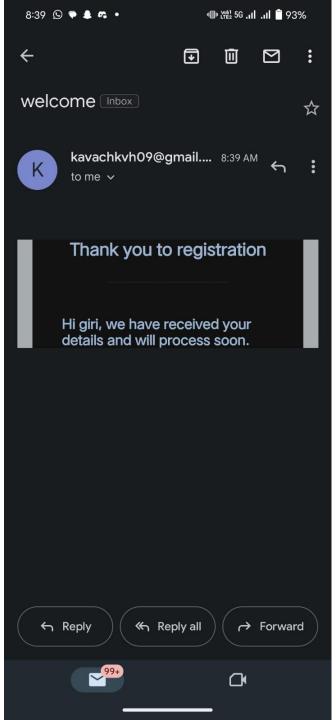
## WEB APPLICATION

INTEGRATION OF ALL MODEL RESULTS FOR A CONSOLIDATED DATABASE

THIS ENABLES EASY ACCESSIBILITY AND NAVIGATION

#### Sign Up

Username*	
Required. 150 characters or fewer. Letters, digits and @/./+/-/_ only.	
First name*	
Last name*	
Email*	
Phone no*	
Password*	
<ul> <li>Your password can't be too similar to your other personal information.</li> <li>Your password must contain at least 8 characters.</li> <li>Your password can't be a commonly used password.</li> <li>Your password can't be entirely numeric.</li> </ul>	
Password confirmation*	



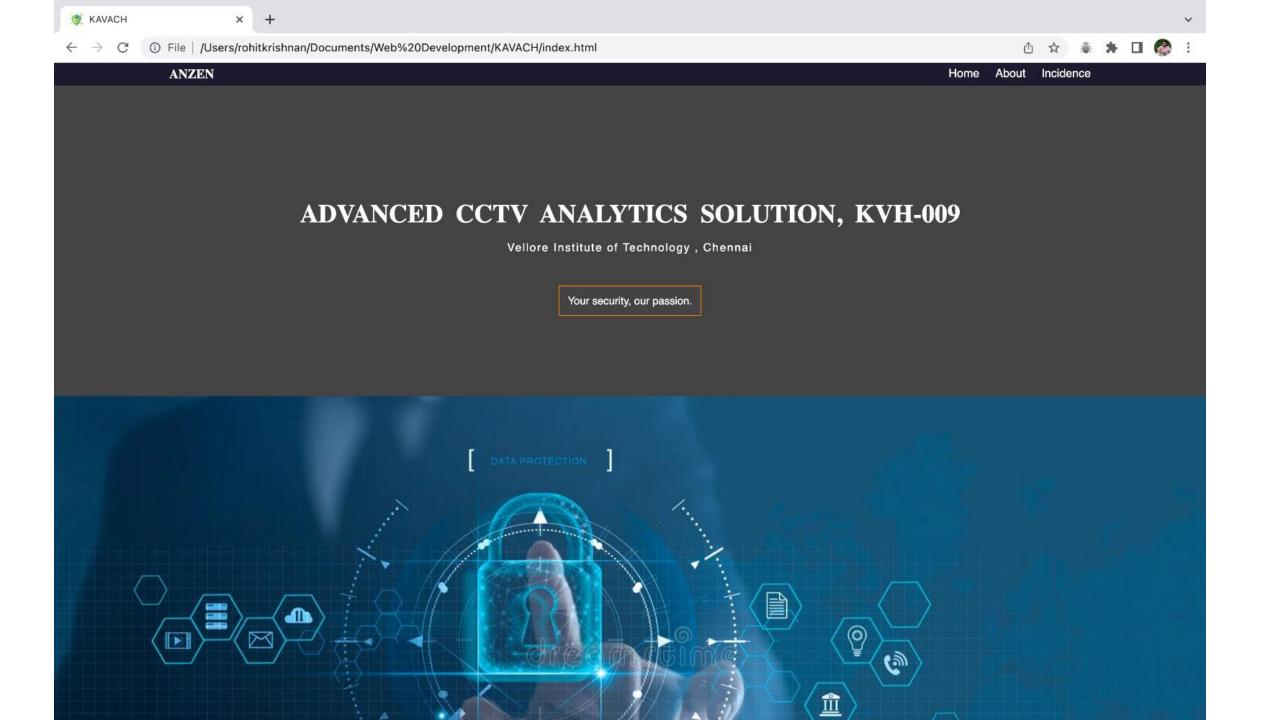


Login
Username\*

Password\*

Don't have an account? Create one Here!

Login



① File | /Users/rohitkrishnan/Documents/Web%20Development/KAVACH/index.html

Home About Incidence

#### - DEVELOPERS -









Nithin K Shine



ANZEN

i File //Users/rohitkrishnan/Documents/Web%20Development/KAVACH/incidence.html



ANZEN					Home About Incidence	е
Incident Data						
Incident ID	Incident Type	Camera ID	District	Latitude	Longitude	Time
-NRI4kuLIRgmnvrOpGeU	abuse	x1	kancipuram	14.330921	80.017636	15:38:09
-NRL-zqycGzKhWaomaeT	abuse	x2	Mylapore	13.038144	80.2608048	05:16:13
-NRL-zqycGzKhWaomaeT	abuse	x2	Mylapore	13.038144	80.2608048	05:16:13
-NRI4kuLIRgmnvrOpGeU	abuse	x1	kancipuram	14.330921	80.017636	15:38:09
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-NRI4kuLIRgmnvrOpGeU	abuse	x1	kancipuram	14.330921	80.017636	15:38:09
-NRI4kuLIRgmnvrOpGeU	abuse	x1	kancipuram	14.330921	80.017636	15:38:09

#### ANZEN

#### Home Incidents girldhar LOGOUT

#### Incident Data

->->->

Incident ID	Incident Type	Camera ID	District	Latitude	Longitude	Time	Directions
-NRI4kuLIRgmnvrOpGeU	abuse	xl	Kanchipuram	14.330921	80.017636	15:38:09	Directions
-NRL-zgycGzKhWaomaeT	abuse	x2	"Mylapore"	13.038144	80.2608048	05:16:13	Directions
NRLfSBRI7-U5Ty-9TcJ	abuse	x1	Kanchipuram	14.330921	80.017636	[1970, 1, 1, 0, 0, 0, 3, 1, 0]	Directions

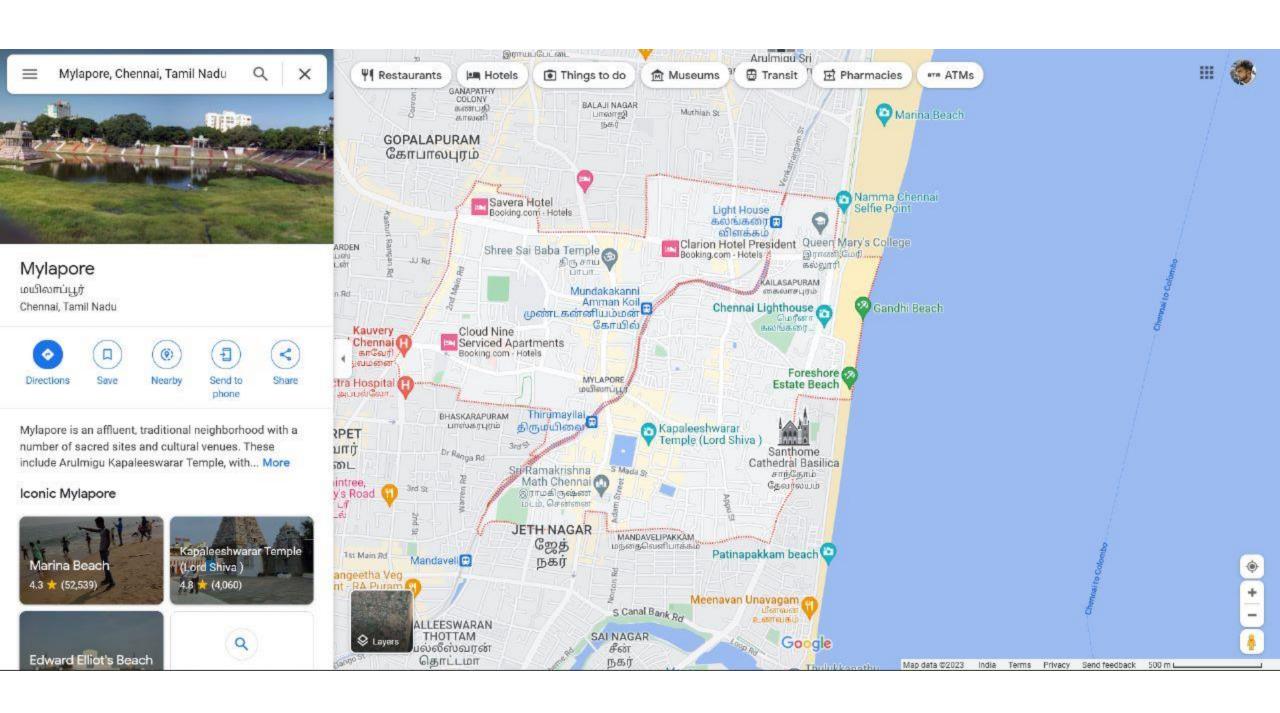
ANZEN

#### Home Incidents giridhar LOGOUT

#### Incident Data



Incident ID	Incident Type	Camera ID	District	Latitude	Longitude	Time	Directions
-NRI4kuURgmnvrOpGeU	abuse	xl	Kanchipuram	14.330921	80.017636	15:38:09	Directions
NRL-zgycGzKhWaamaeT	abuse	x2	"Mylapore"	13.038144	80.2608048	05:16:13	Directions
-NRLfSBRi7-U5Ty-9TcJ	abuse	χl	Kanchipuram	14.330921	80.017636	[1970, 1, 1, 0, 0, 0, 3, 1, 0]	Directions





## THANK YOU