

CROWDVISION

Crowded or not?
That's the question indeed.





Who We Are?

Constantly finding yourself stuck in crowds?
Don't worry! We got you.




User-Friendly

It's literally just a click
of a button!



Admin-friendly

Can be used for
security purposes
too.



The Problem



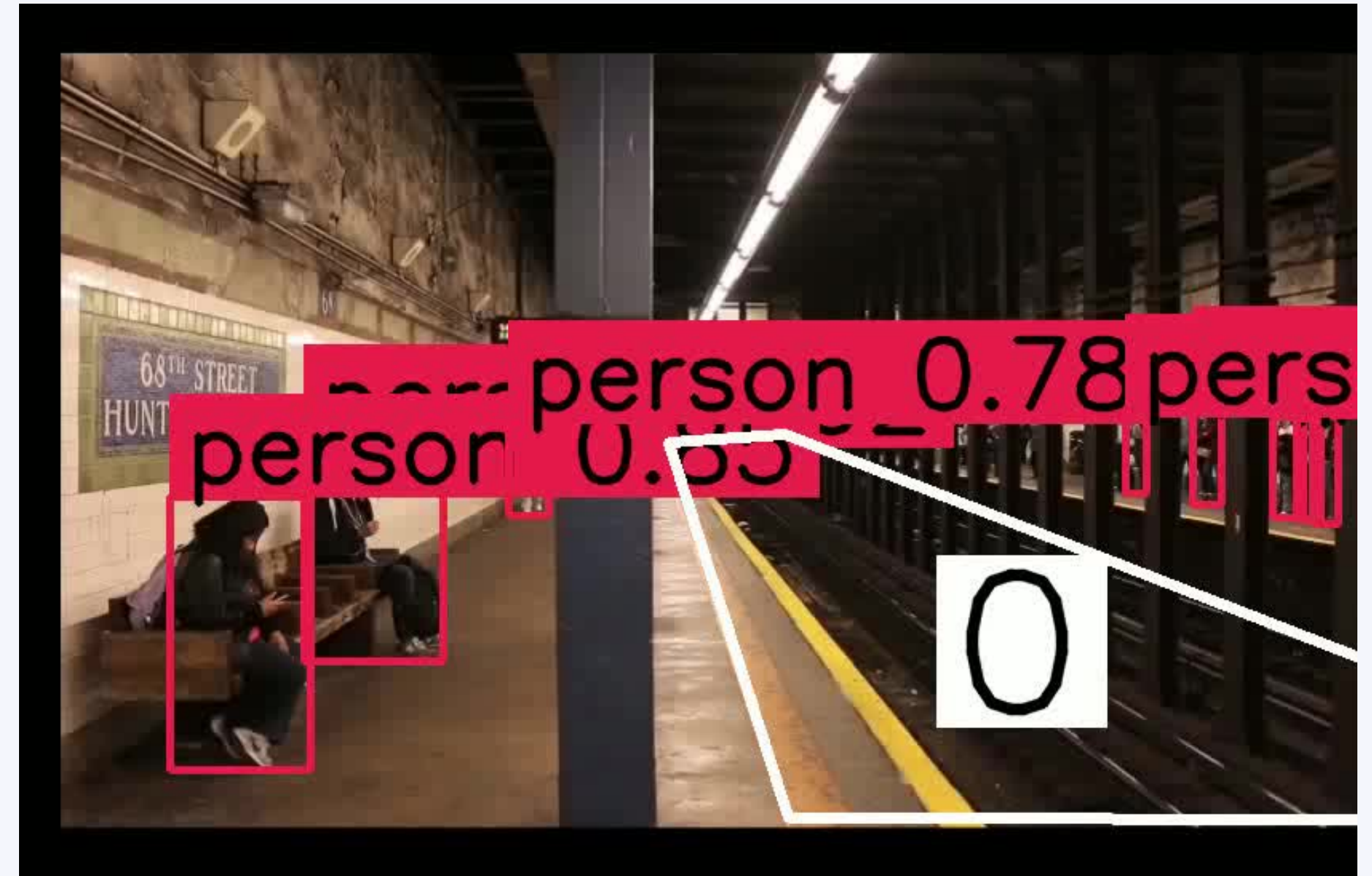
CROWD CONTROL

It is essential to ensure the safety of public, maintain high throughput pedestrian flow to prevent stampedes, provide better emergency services in case of crowd related emergencies and to optimize the resources for providing good accessibility by avoiding congestion.



Our Solution

Time being valuable these days, it becomes quite important that we try managing it so as to make the most out of it. Moreover, punctuality plays an important role let it be any profession. We have come up with a convenient yet efficient solution to it. It will help us to know the approximate length of the queue in key spots of a particular place including the entries and exits in real time using the CCTV feed and computer vision. This will be useful in avoiding the unnecessary traffic so that one can reach their destination in time. We propose to provide real time data about the congestion in specific areas along with analytics to predict the volume of crowds in the future.

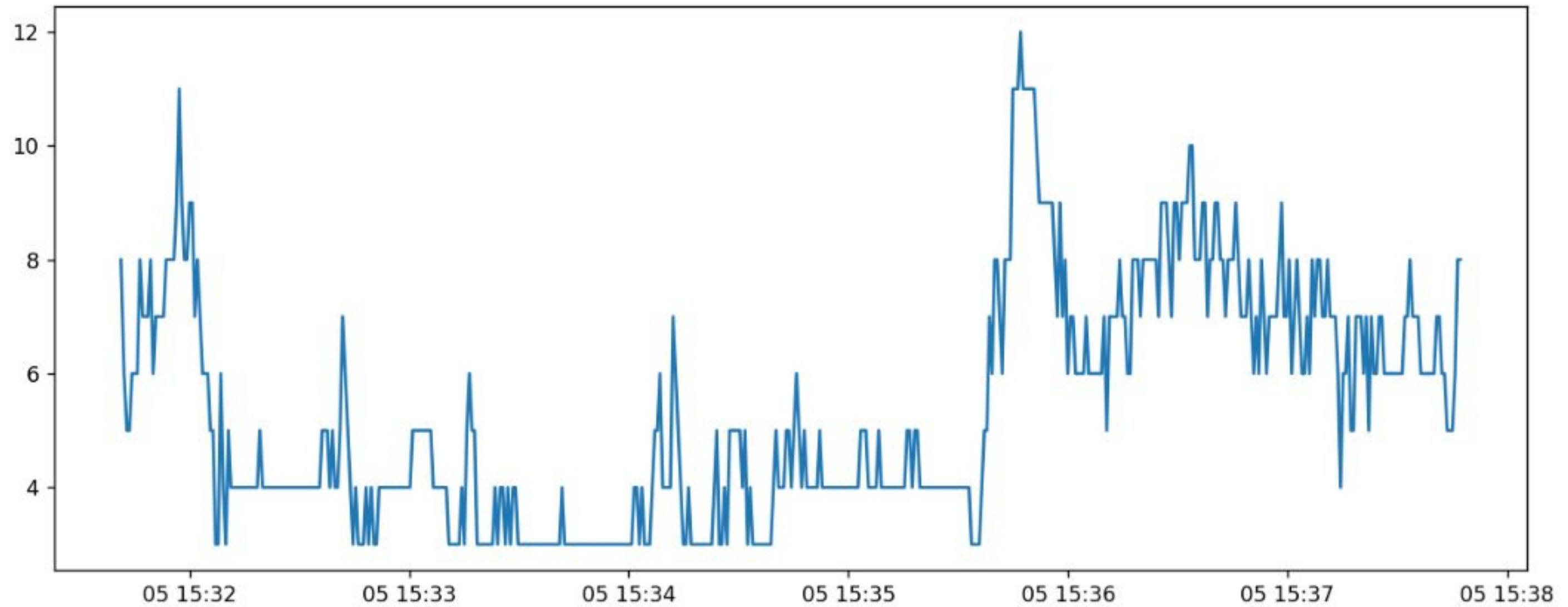




Features built

We will build a website where the frontend will have a drop down menu to choose from different locations within the campus. The number of people standing in the queue and an estimated waiting time will be shown for the selected location.

The above picture shows how CrowdVision detects people along with a confidence ratio. Depending on the scenario, the confidence ratio can be adjusted for optimal results. The below image shows the count of the people detected in the specified area



Alongside the real time annotated footage , the count and a graph representing the crowd trend of specified regions will be shown.

Deploy ability: This project can render the annotated video and respective analytics for a 5 minute video in 27 seconds on CPU power

Constraints and known issues

The constraints of this projects are that the parameters may keep changing while reaching the destination which may make us change our decision in between.
Constant and non disruptive CCTV footage is required.
The known issue is that count will not be very precise in a large volume of people

THANK YOU!

