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Mumbai: Accident victim dies as ambulance gets stuck in traffic jam

| Thursday | 21st April, 2016

Choking life: 12 on way to hospitals die in traffic jams

TNN / Updated: Oct 18, 2016, 09:49 IST

Lives at risk from long ambulance waits, say paramedics

By Nick Triggle
Health correspondent

11 November 2021 | Comments

City plights: Stuck between life and death on Delhi's roads

New victims of Bengaluru's traffic jams: Patients in ambulances

AUTOMEDIC

PROJECT PHOENIX

NHS patients dying in back of ambulances stuck outside A&E, report says

Ambulance Stuck in traffic, Scary Right?

Infant dies as ambulance gets stuck in traffic amid protest by contractual employees

PROTECTING LIVES WITH SMART VISION

A look at how technology can help save lives!

Discussion points

Key topics covered
in this presentation

- The problem
- The solution
- Technologies used
- USP & Features
- Market Validity & Target Market
- Prototype Implementation
- Business model

THE PROBLEMS

Ambulances getting stuck in a traffic congestion while carrying a patient.

Cars willing to get out of the way but unable to due to timed traffic lights.

The present solutions being quite expensive to carry on a large scale.

THE SOLUTION

AUTOMEDIC is a python autonomous system capable of:

STEP 1

Detecting emergency vehicles from an appropriate distance (1.0 km)

STEP 2

Turning the traffic light from red to green (if the light isn't already green)

STEP 3

Allowing the ambulance to pass safely!

TECHNOLOGIES USED

- An AI model is trained using TensorFlow, Cuda and Cudnn.
- The tensorflow version used is 2.8.0 and the version used for cuda is 11.5 and cudnn 8.2.
- Emergency vehicles (such as ambulances) have been detected using OpenCV for better automated prioritization of vehicles.
- Traffic light system was designed with the help of Turtle library.

USP & FEATURES

Detect vehicles from a km ensuring enough time for the lights to change safely.

95% accuracy.

No upfront cost.

Enhance the pre-existing CCTVs cameras.

MARKET VALIDITY & TARGET MARKET

Can be used in collaboration with the government.

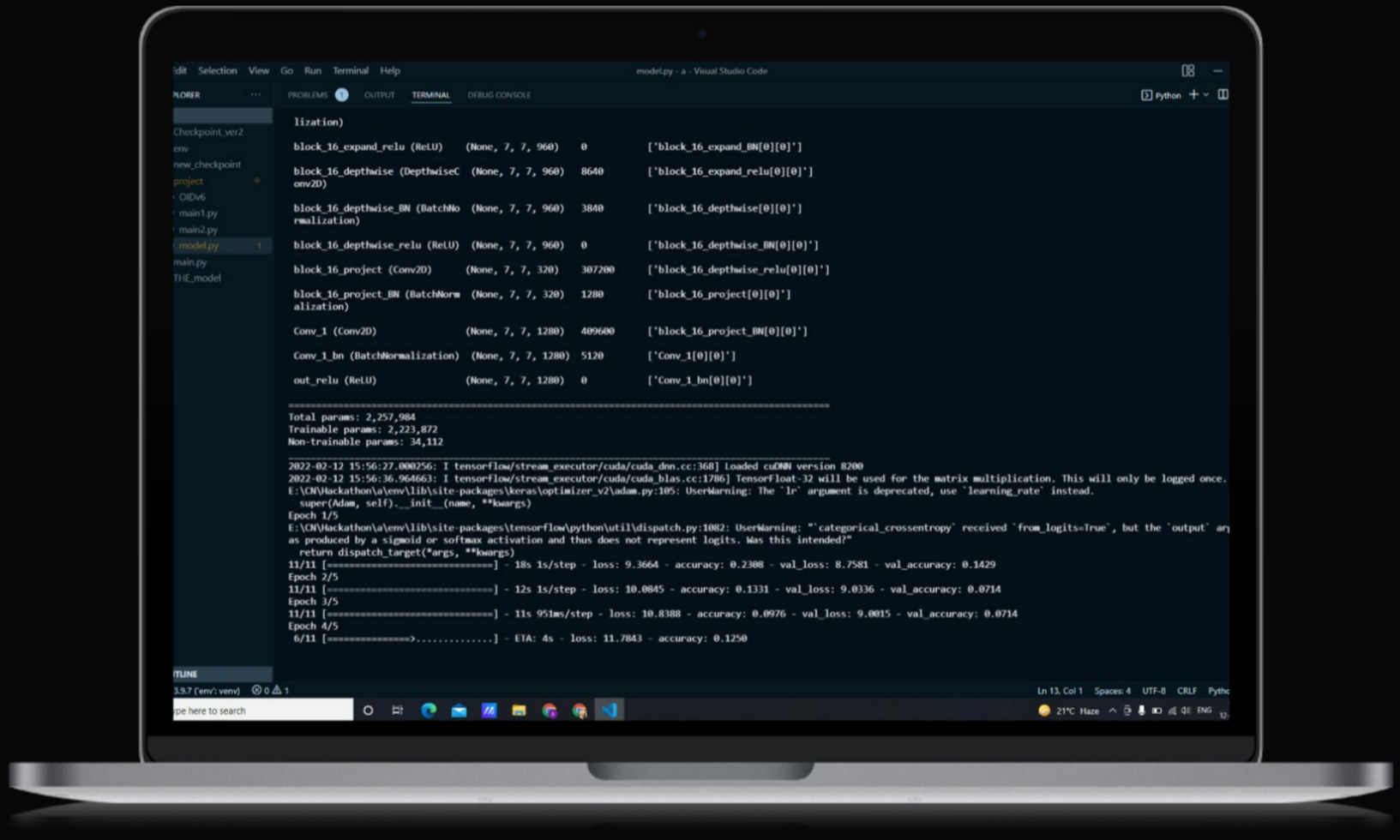
Can be used by private healthcare enterprises.

The technology can even be used in traffic management and detection of other vehicles.

Can be used to provide multi-city mapping.

Further devlopment of the technology can also provide info such as identification of traffic accidents.

PROTOTYPE IMPLEMENTATION

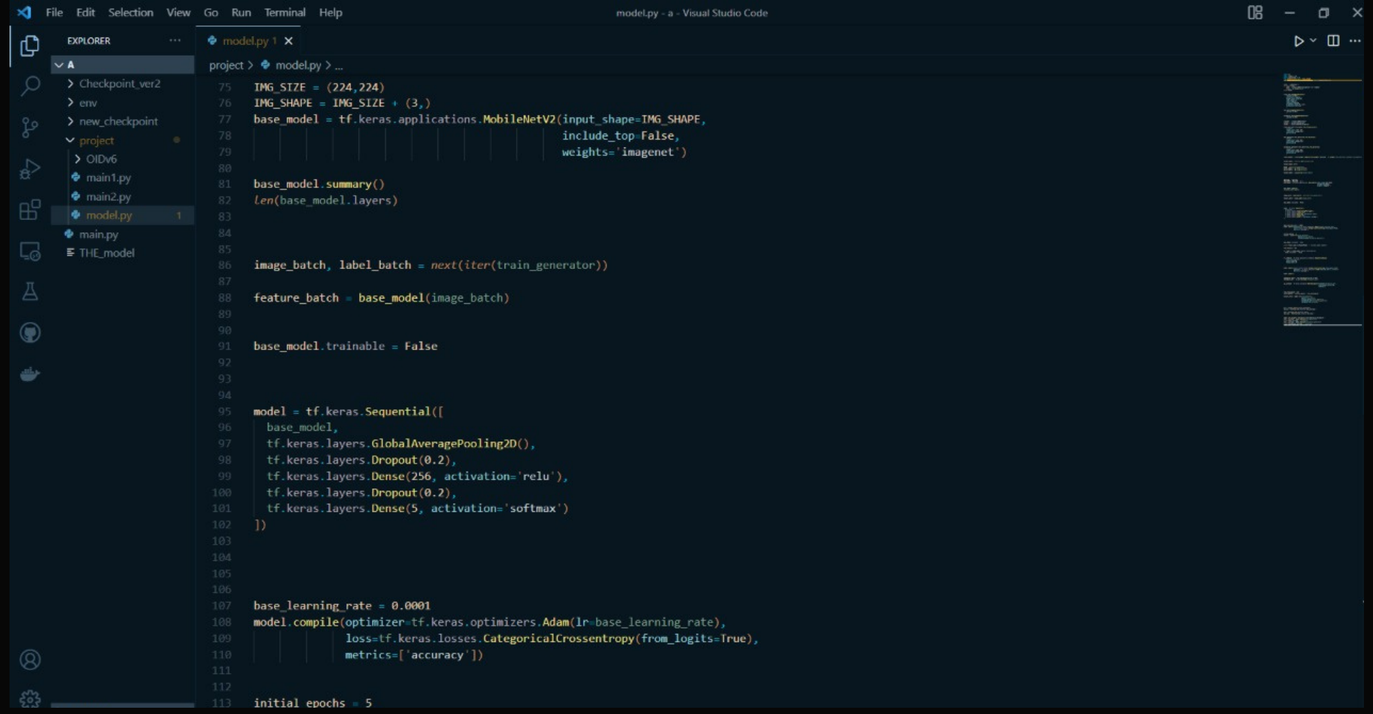


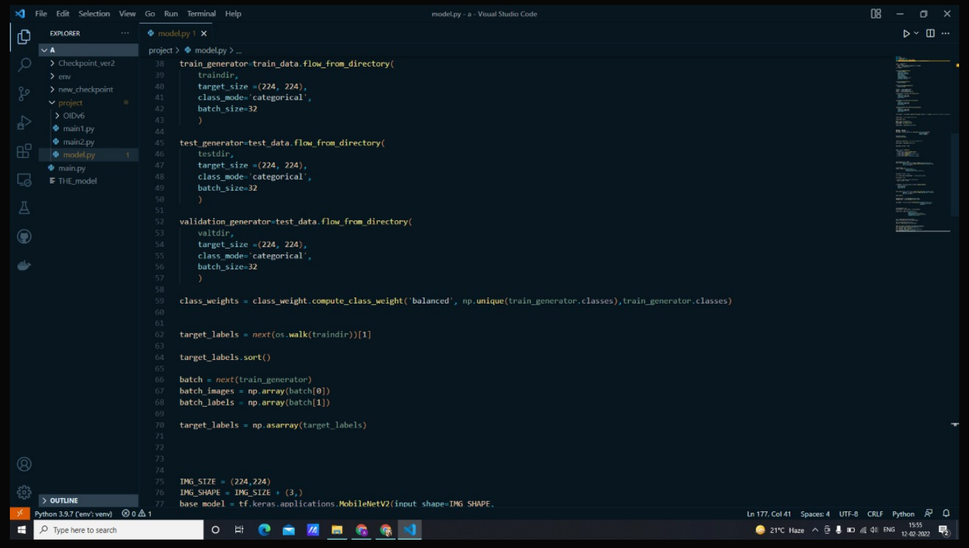
```python
import turtle
import time
wn=turtle.Screen()
wn.title("Team Project Phoenix")
wn.bgcolor("black")

#Draw a box around the light
pen=turtle.Turtle()
pen.color("yellow")
pen.width(3)
pen.hideturtle()
pen.penup()
pen.goto(-30,60)
pen.pendown()
pen.fd(60)
pen.rt(90)
pen.fd(120)
pen.rt(90)
pen.fd(60)
pen.rt(90)
pen.fd(120)

#Red Light
red_light=turtle.Turtle()
red_light.shape("circle")
red_light.color("grey")
red_light.penup()
red_light.goto(0,40)

#Yellow Light
yellow_light=turtle.Turtle()
yellow_light.shape("circle")
yellow_light.color("grey")
```





BUSINESS MODEL

Niche market; not much competition

Highly cheaper than the competition

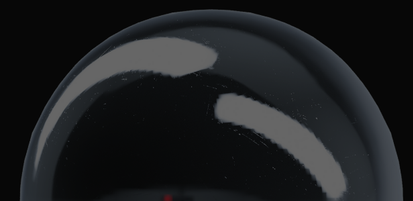
Continuous investment in security

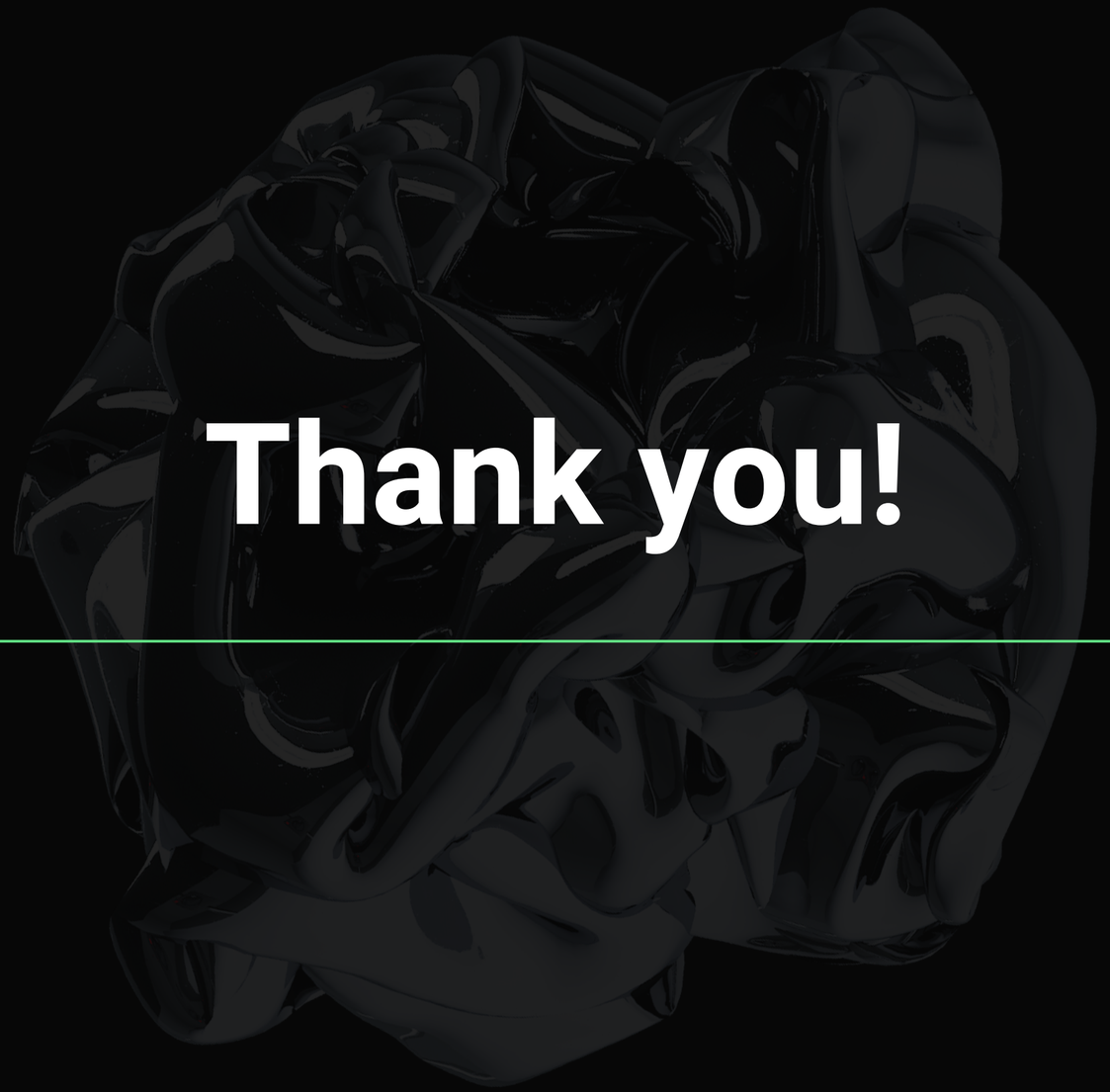
Complex event streaming combined with data management capabilities, also known as anomaly detection, can be instrumental to effectively verify the urgency of events in real time and facilitate predictive interventions.

“

Just a few seconds
can mean the difference between life and death

CRAIG STOUT





Thank you!