

Wild Animal Detection

By Unkils

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Track: AI-ML

As Submission of Hackathon



Our Approach in 4 'W'

What?

Human-animal conflict creates a lot of negative impacts for both humans and wild animals. Injury and loss of life of humans and wildlife, damage to human property, crop damage, and habitat destruction are some of the major impacts of these conflicts.

So there is a need to develop a system that detects any presence of interactions of wild animals in the border region without causing any harmful effect to human beings and wild animals the interference

Why?

to prevent animal intrusion that results in dangerous situations in the forest border area.



How?



Create Dataset



Analyze Data



Model Train



Test & Validation

Create Dataset

Annotation Editor

Cheetha

DeleteSave (Enter)

1 Cheetah

2 Cheetha

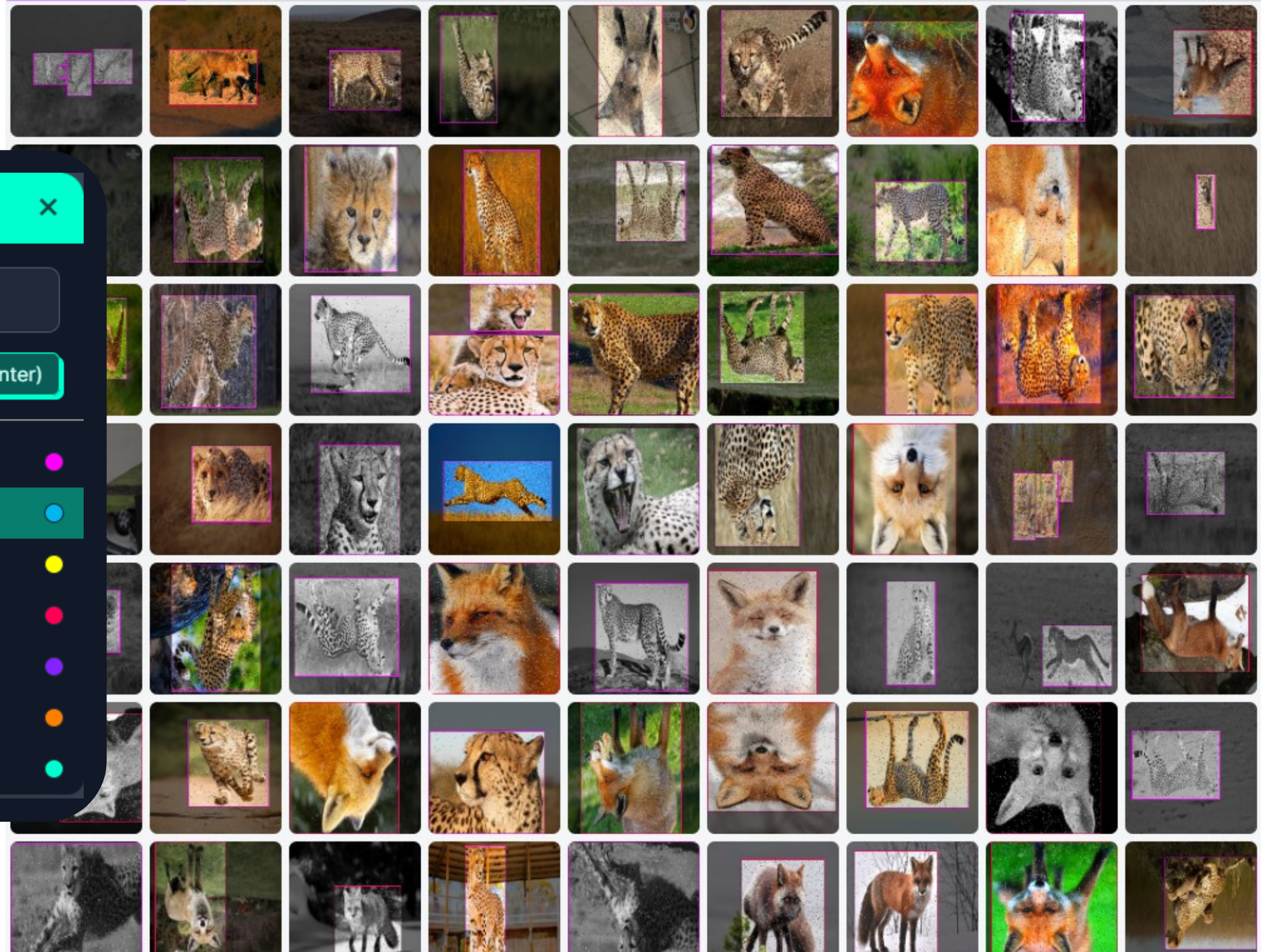
3 fox

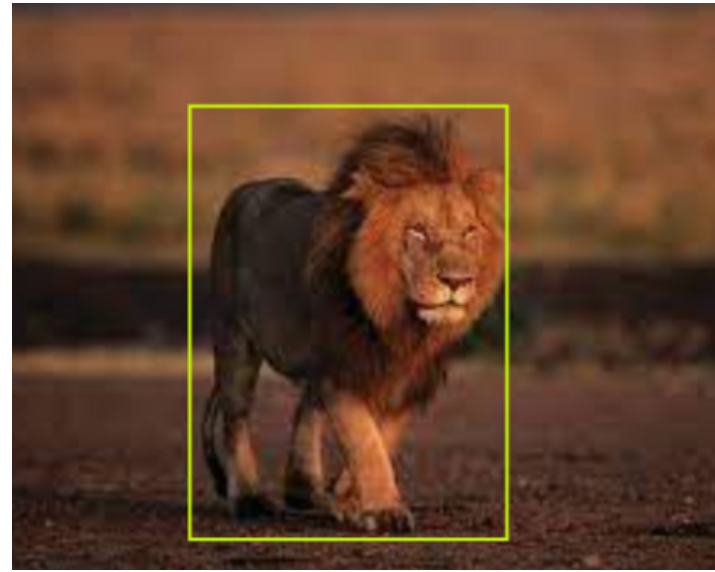
4 hyena

5 Lion

6 tiger

7 WOLF

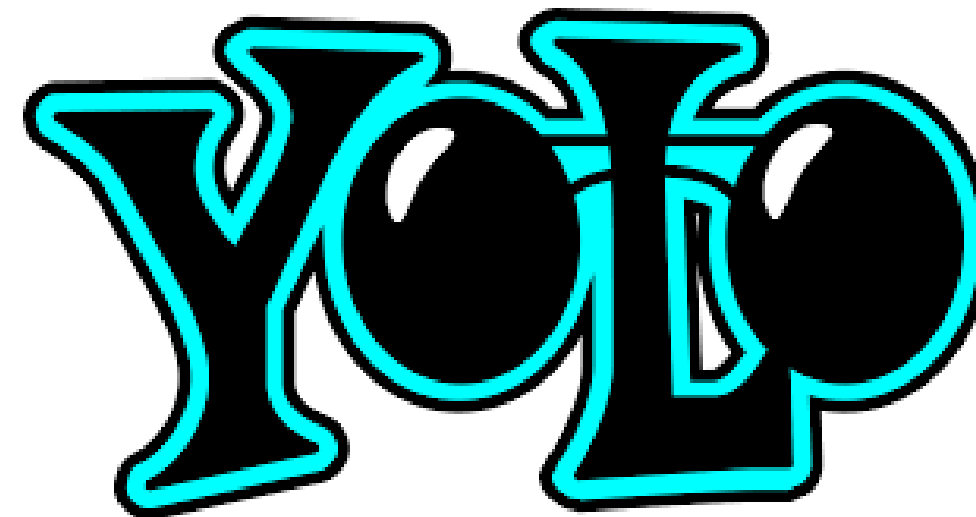




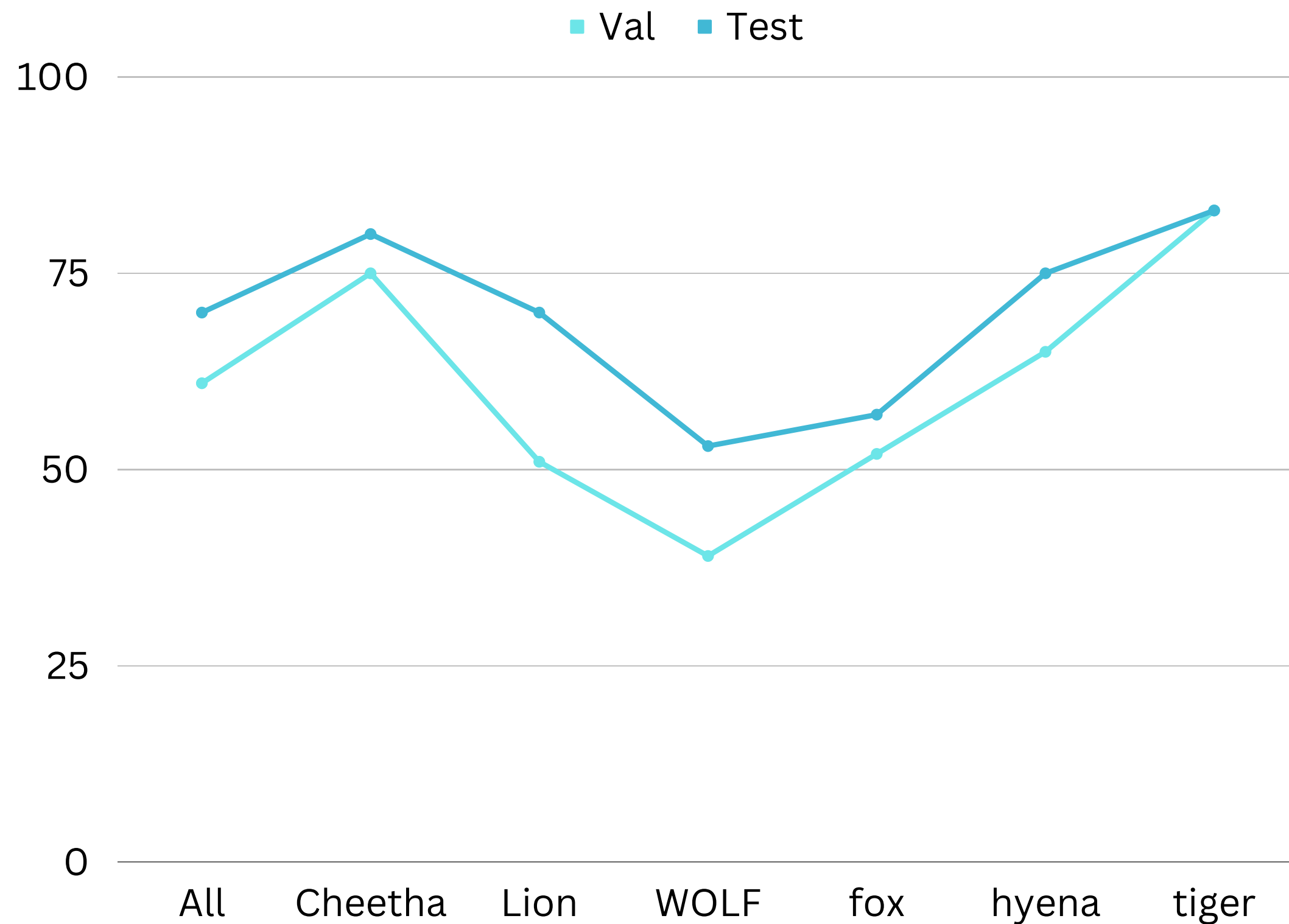
Bounding Box Detection



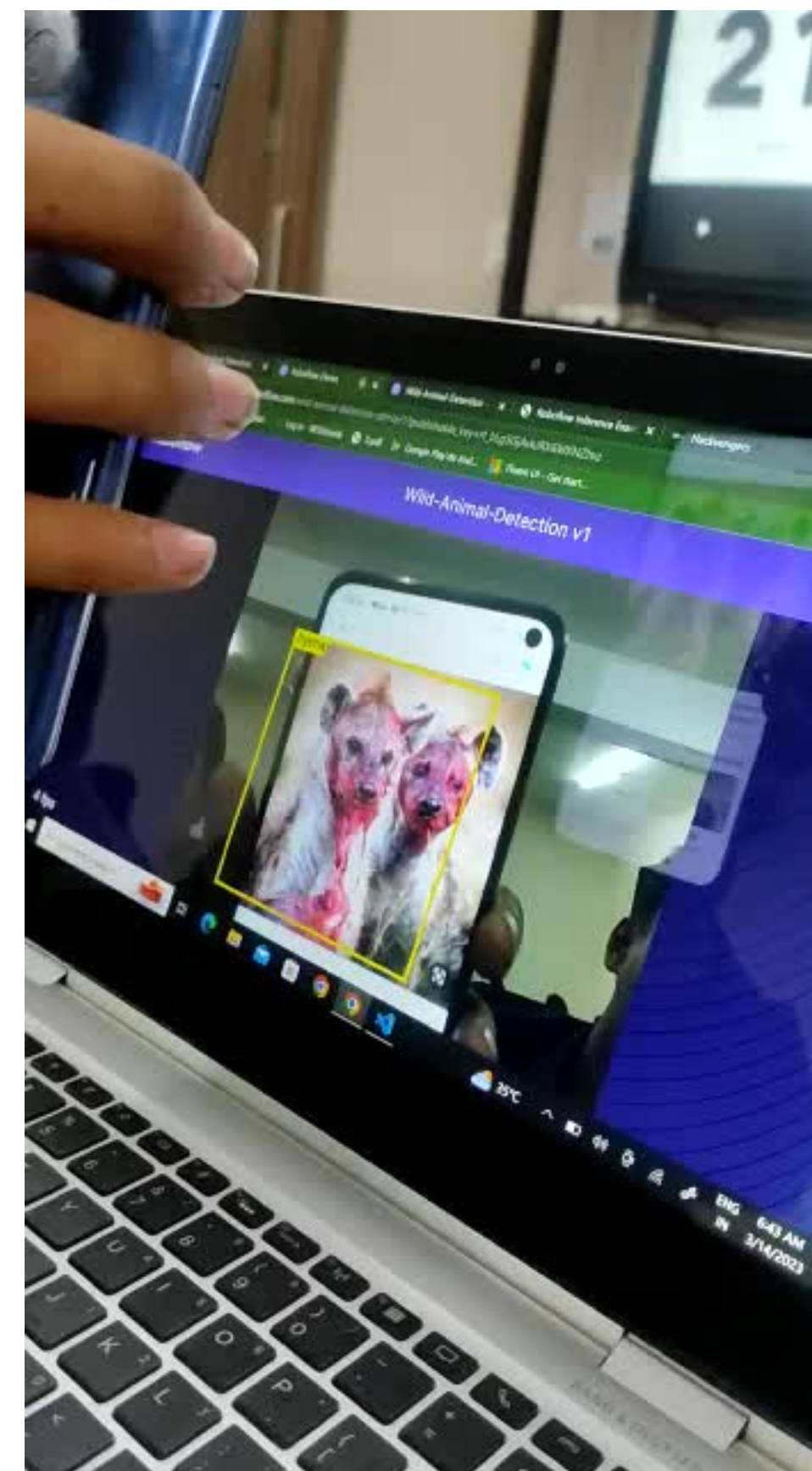
Segment Vise Detection



we try Various yolo versions like yolov5s, yolov5l
and latest yolov8 to train our Custom object
Detection model



**We made a custom object detection
model accuracy of 70%**



And Finally came up with an Interface that detects
Wild animals from webcam feed, images, and
URLs of images

Let's try.

Where?

We will implement this model in all the villages around the jungle areas. The highways pass through jungle areas and in the jungles.