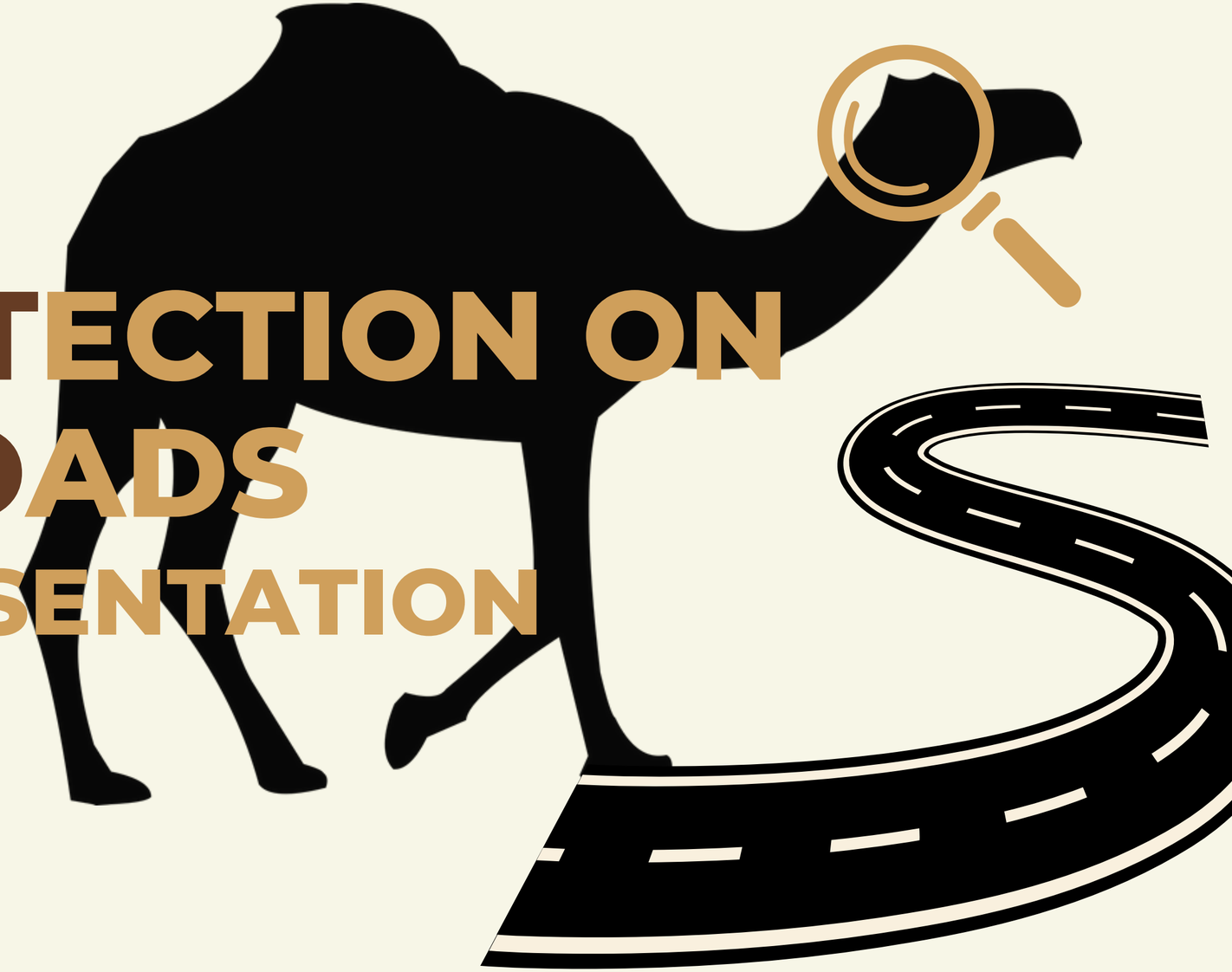
CAMEL DETECTION ON TRAVEL ROADS

PROJECT PRESENTATION

WEEK 4



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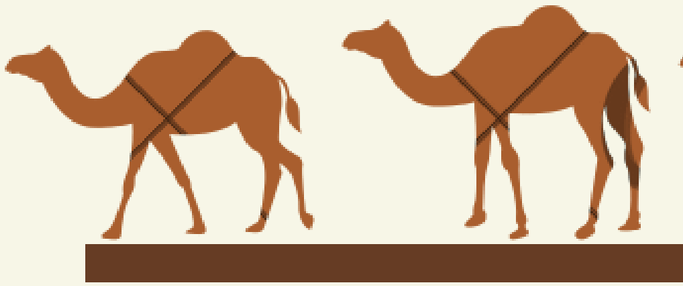
Problem Statement

Saudi Arabia presents a case of habitat fragmentation, especially in rural communities, where good road systems coexist with domesticated camels. This environment has made camel-vehicle collisions inevitable.

The occupants of the affected vehicles often undergo a pattern of avoidance reflex movement and ‘protective flexion,’ which in many accidents ends up being counterproductive.

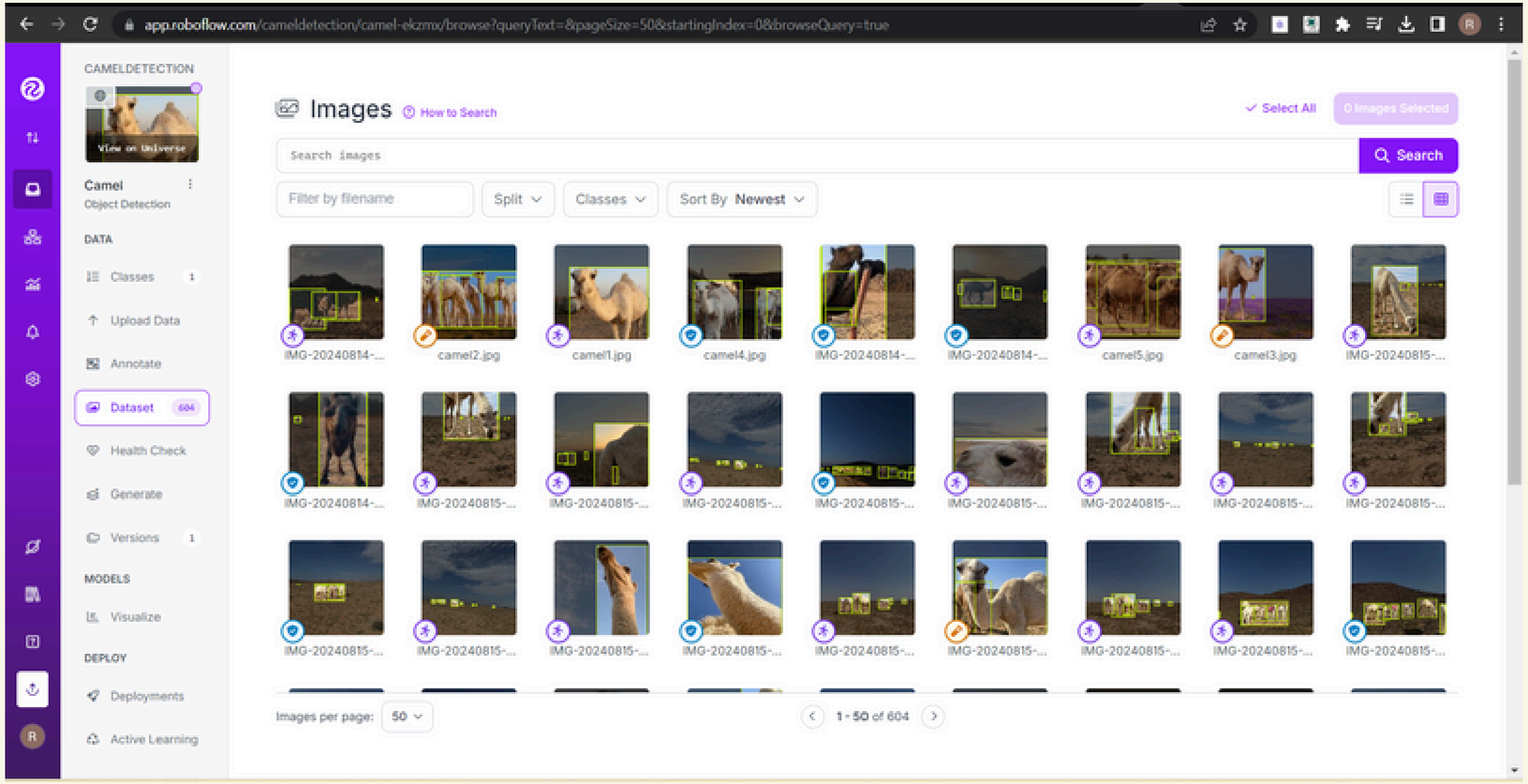
To address this issue, our model aims to create a computer vision-based system that can identify camels on the road and provide real-time alerts to drivers.

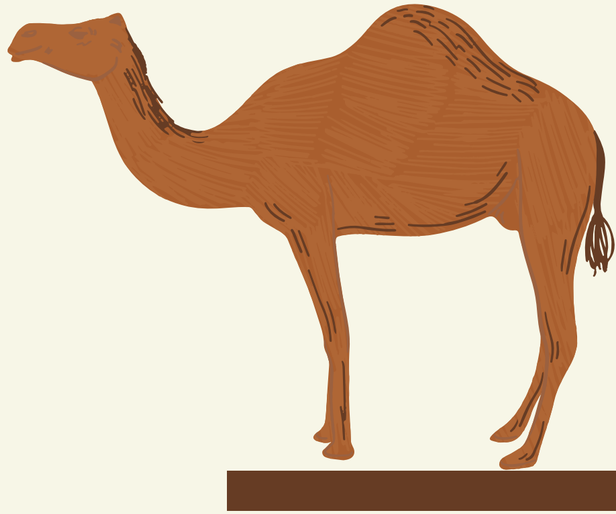


Methodology and Approach

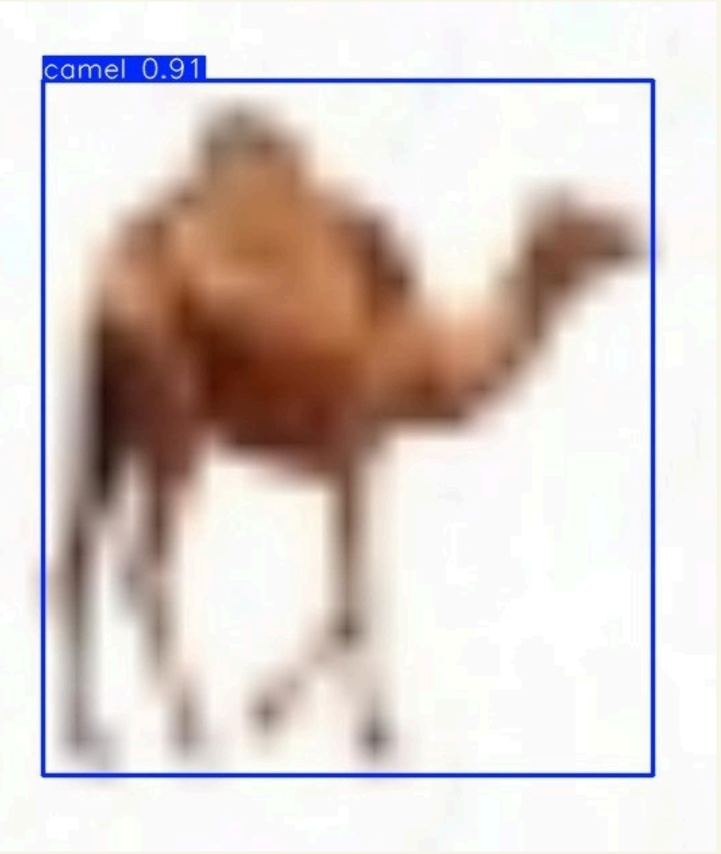
- Gather the data
- Deal with dataset
- Build a Yolo model
- The performance of the yolo model

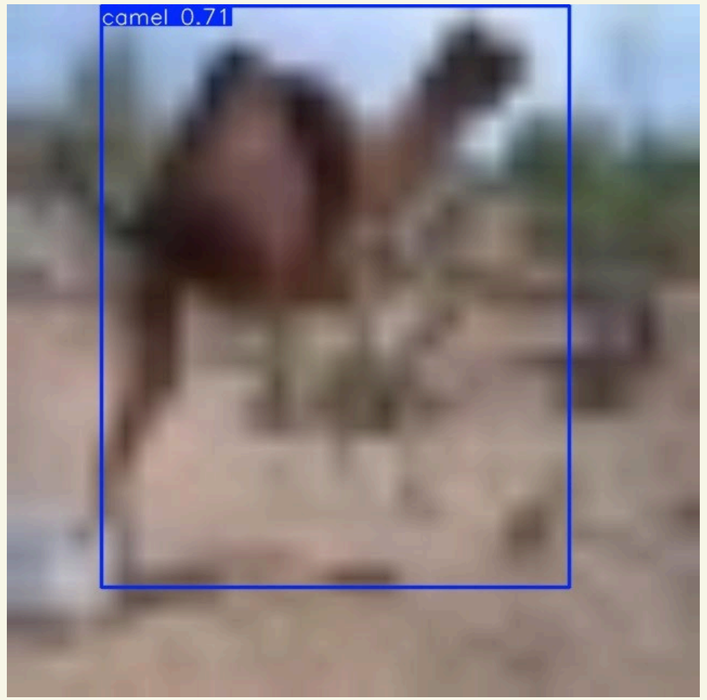
Work Accomplished

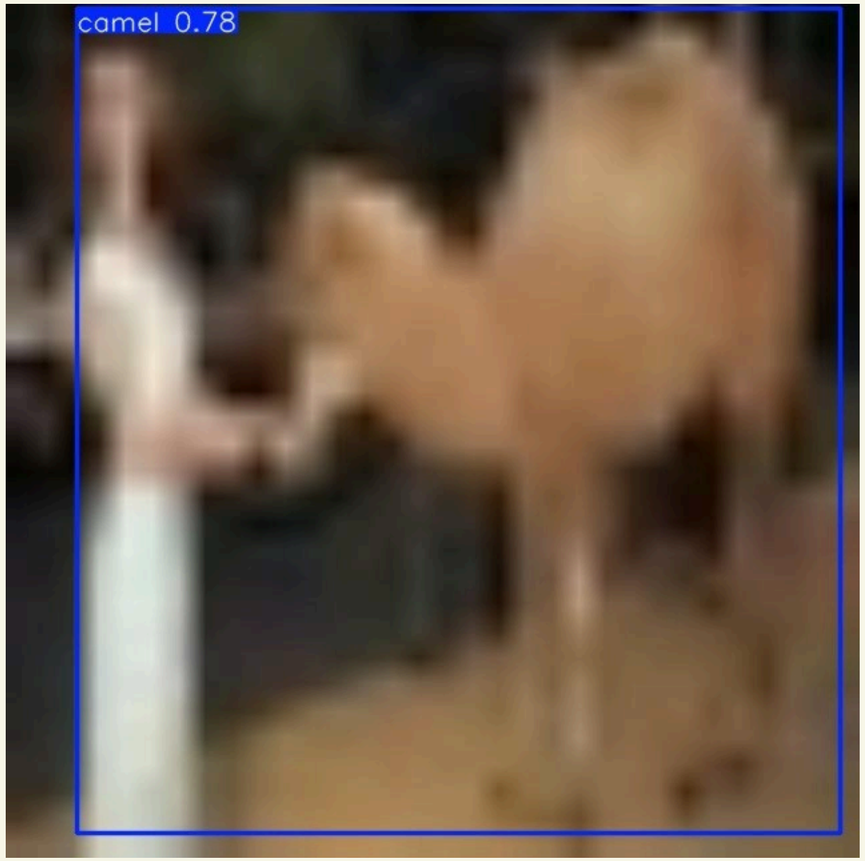




Work Accomplished







Challenges Faced

- Limited Time
- Collect Dataset
- Label Data
- New Team
- Selecting the model

Conclusion

The development and implementation of the camel detection and management system on travel roads successfully addressed the challenges associated with camel presence.

Future Enhancement

- Classify the camel location and movement state.
- Make this project a robust and scalable solution to enhance road safety in camel-populated regions.
- Integration with radar or dash cam systems in vehicles

Our Great Team

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THANK YOU FOR WATCHING