HUMAN ANIMAL CONFLICT

INTRODUCTION

- The Human-Animal Conflict project aims to mitigate the negative consequences of wildlife interactions with humans. The project leverages deep learning algorithms using the YOLOv5 architecture to analyse and predict the animal in visual imagery. This enables the project to alert the necessary authorities and individuals to take appropriate measures to reduce the risk of conflict between humans and animals. To achieve this, the project employs a custom dataset that includes a wide range of animals and their specific characteristics. Through this project, the team seeks to contribute to the sustainable coexistence of humans and wildlife while preserving biodiversity.

AIM

Our project aims to find sustainable solutions to reduce human-animal conflicts and promote coexistence between humans and wildlife.

OBJECTIVES

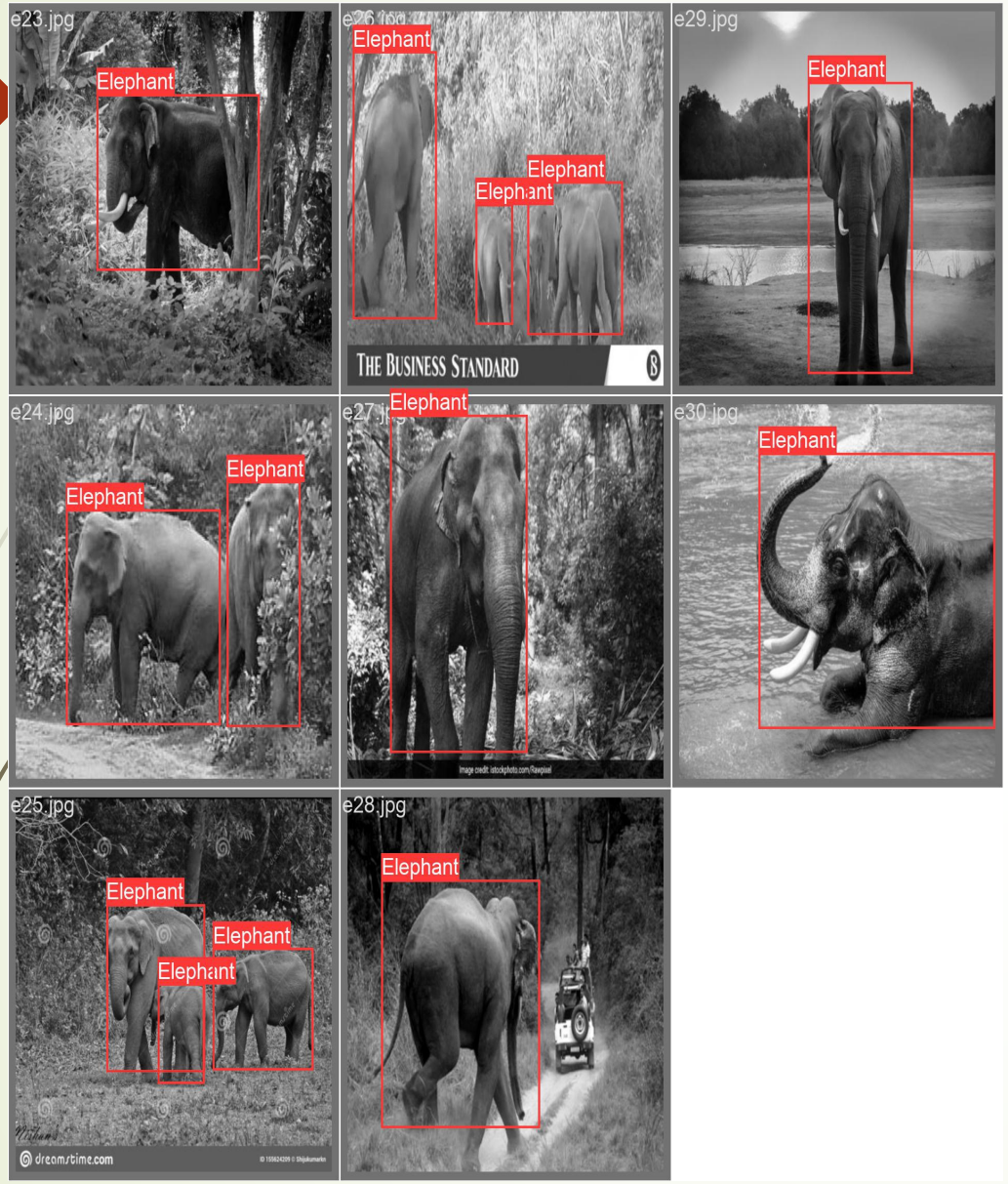
- To find the sustainable solution to reduce human animal conflict.
- Mitigating the negative consequences of human-wildlife interactions
- Promoting the sustainable coexistence of humans and wildlife

PROBLEM STATEMENT

Due to human activities like deforestation, urbanization and agricultural expansion has caused significant changes to the natural habitats of many animals. This has resulted in increased interactions between humans and wildlife, leading to conflicts that can have serious consequences for both people and animals.

PROCEDURE

- Data Collection: Collect images of animals that you want to detect.
- Data Annotation: Annotate the images by marking the animal's bounding boxes in each image. You can use various annotation USING makesense.ai
- Dataset Preparation: Create a dataset in Yolov5 format using the annotated images and annotations
- Train the model: Train the Yolov5 model on your dataset. You can use pre-trained weights to speed up the training process.
- Test the model: Test the trained model on a set of images that are not part of the training dataset to evaluate its performance.
- Deploy the model: Once the model performs well on test data, you can deploy it on new data, such as images or videos, to detect animals.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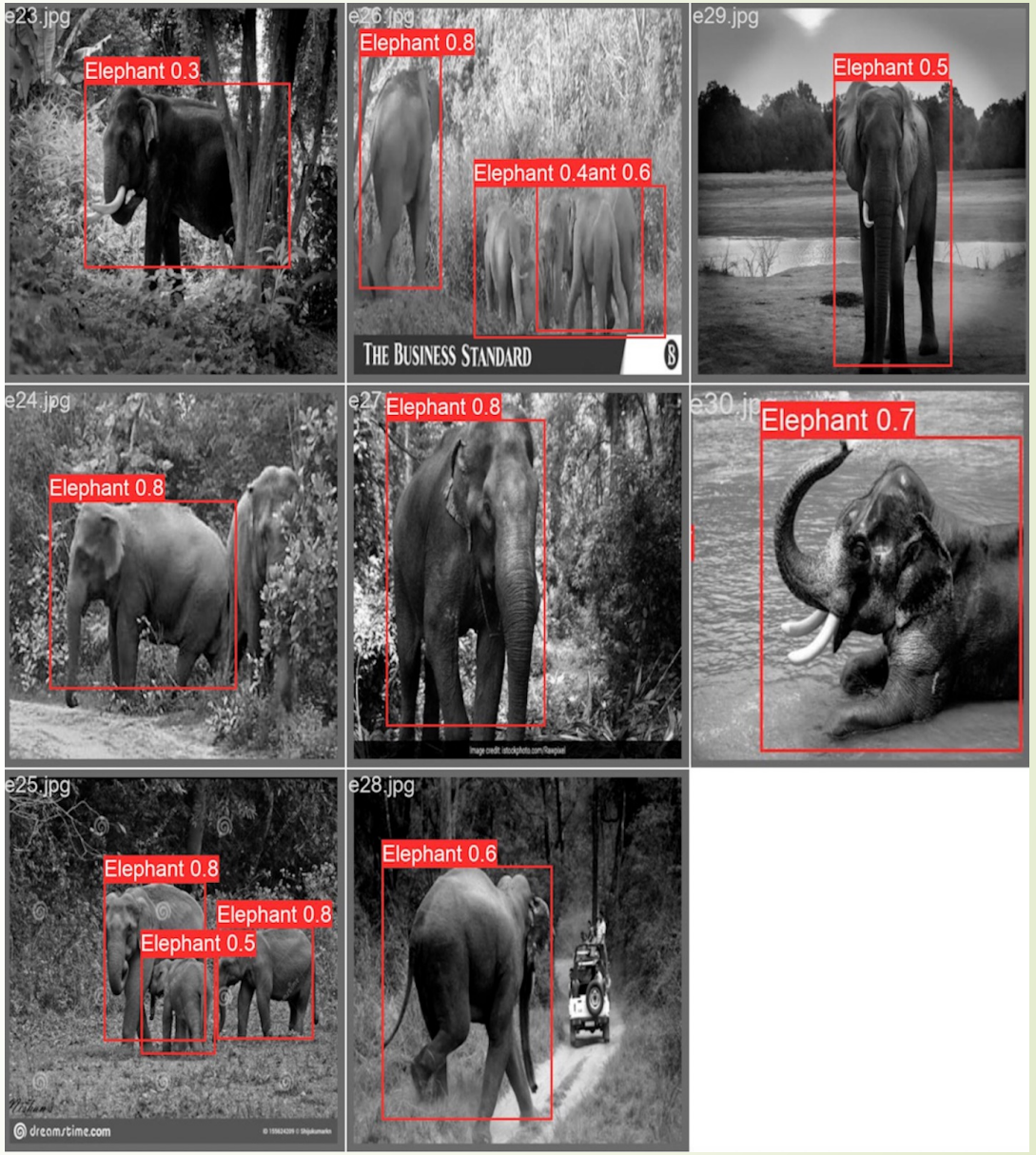
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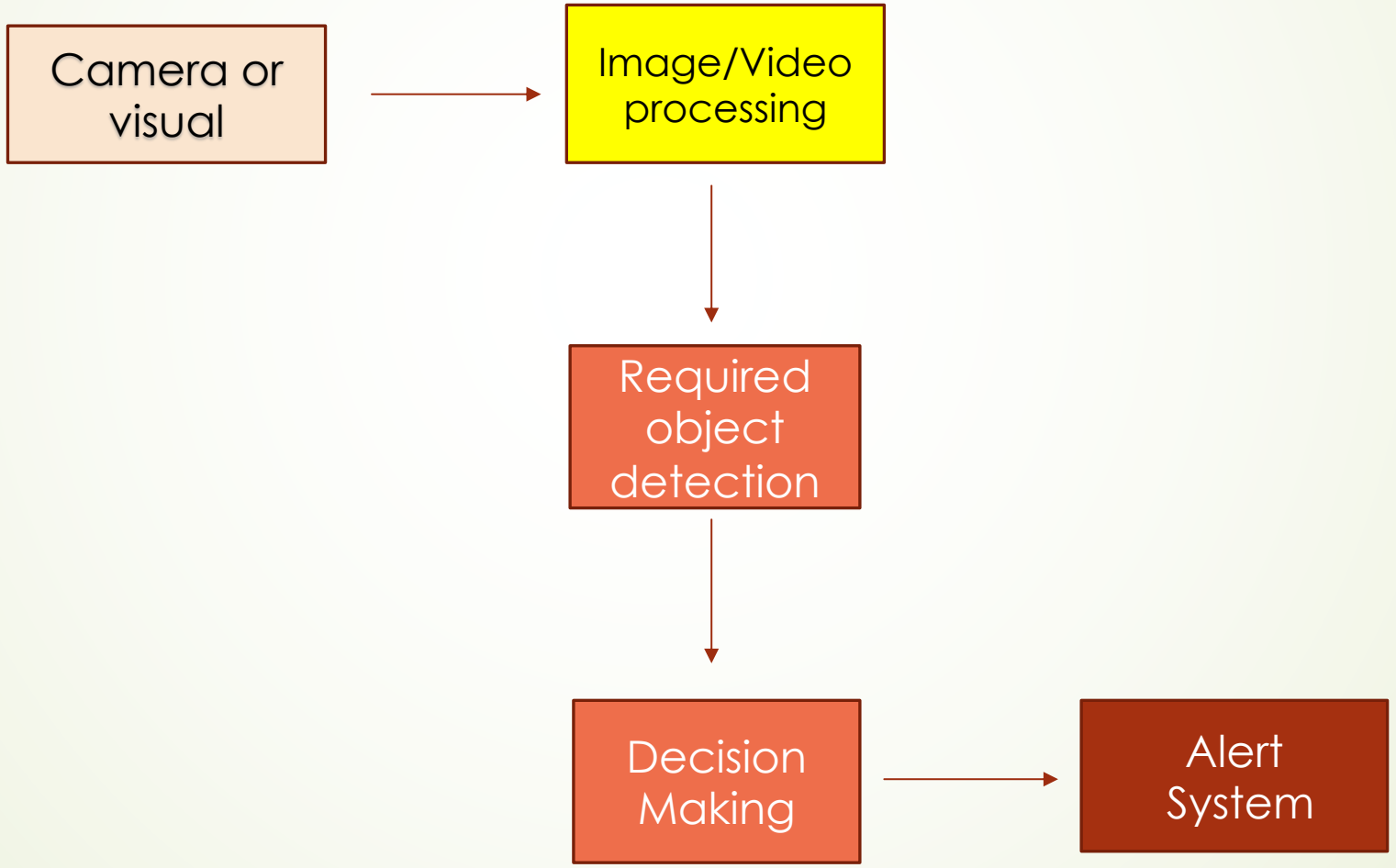
BLOCK DIAGRAM



CONCLUSION

Hence by this project we have addressed one of the biggest problem faced by our planet currently by ensuring a sustainable method to resolve human animal conflict.

THANK YOU!