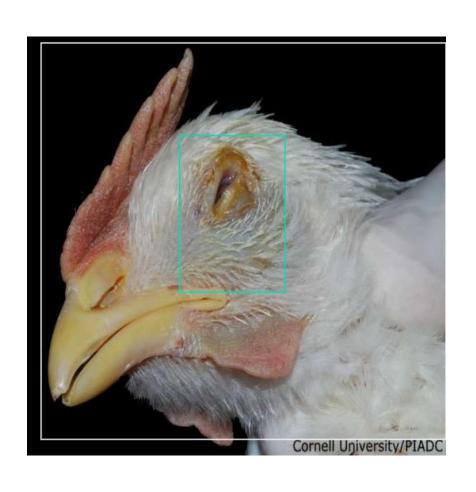


BIRD FLU DETECTION IN CHICKENS

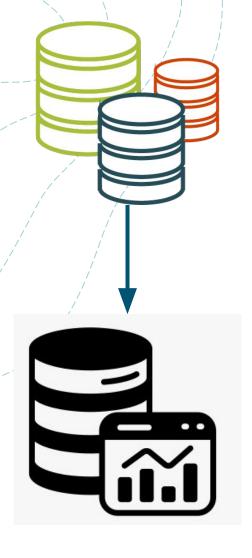
Kishan, Kushal, Anusha, Claudia and Linson

BACKGROUND



- Avian influenza is causing loss of life in chicken and cattle
 - More than 20 million egg-laying chickens in the U.S. died last quarter
- Goal Bird Flu Detector: Detecting bird flu early will help farmers identify sick chickens and prevent the spread to the rest of the population.

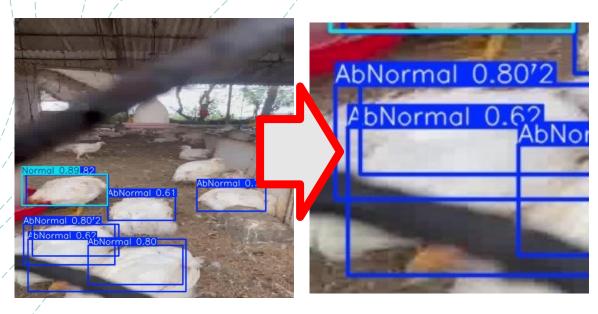




- 1. Locate and combine data from various sources to create a dataset that contains images of chickens, some healthy and some with Bird Flu.
- 2. Add another dimension to the dataset by labeling each image with annotations marking disease areas.
- 3. Visit the Roboflow dataset page.
- 4. Click 'Download Dataset'.
- 5. Select YOLOv8 format and download the ZIP file.
- 6. Open Google Colab and create a new notebook.
- 7. Use the upload button to add your ZIP file.
- 8. Extract the ZIP so images and labels are accessible.

UNDERSTANDING THE DATASET

- Disease Prediction Computer Vision Project
- Highlighting bounding boxes to search and segment normal/abnormal chickens.

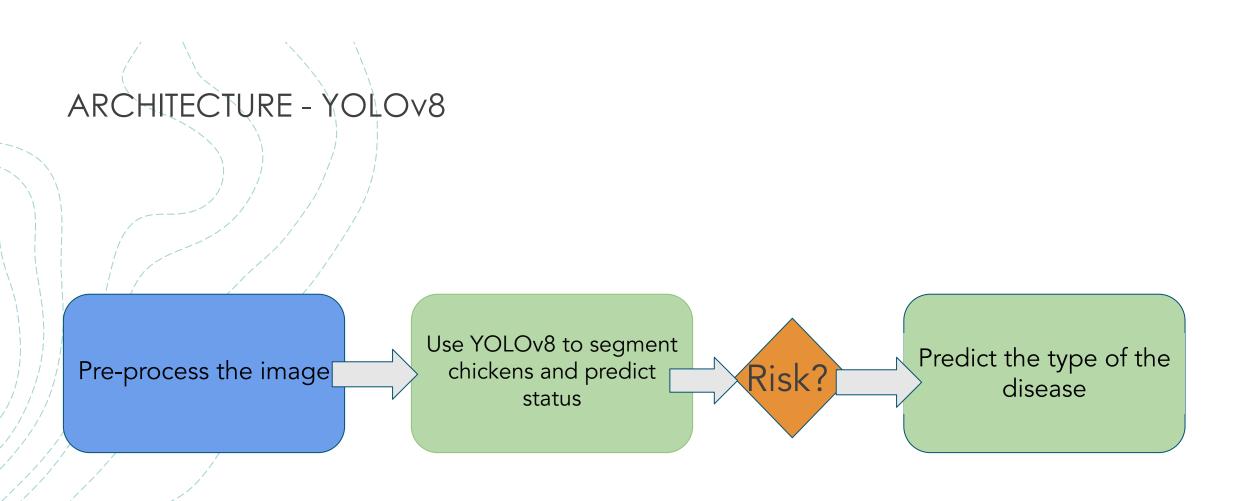


 https://universe.roboflow.com/chicken-disea se/disease-prediction-oryuo

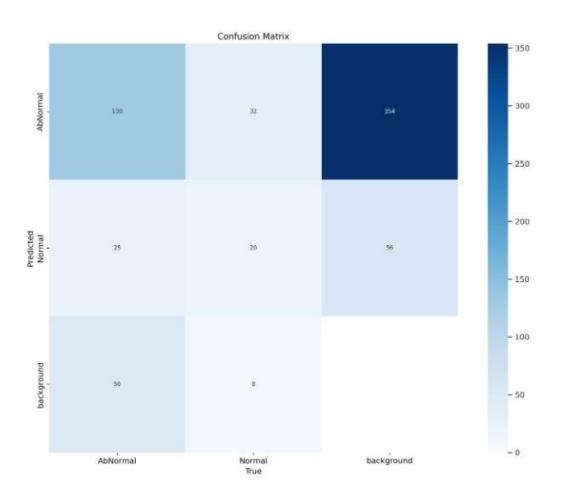
- HenDiseaseDetection Computer Vision Project
- Highlighting the disease of the bird or if its healthy.



 https://universe.roboflow.com/bala-813jz/he ndiseasedetection



Performance



| Class | Images | Instances | Box(P | R | mAP50 |
|----------|--------|-----------|-------|-------|-------|
| all | 40 | 265 | 0.632 | 0.481 | 0.512 |
| AbNormal | 40 | 205 | 0.605 | 0.595 | 0.563 |
| Normal | 28 | 60 | 0.659 | 0.367 | 0.461 |

THANK YOU

Kishan Sathish Babu

Kushal Ageeru

Anusha G Patel

Claudia

Linson

