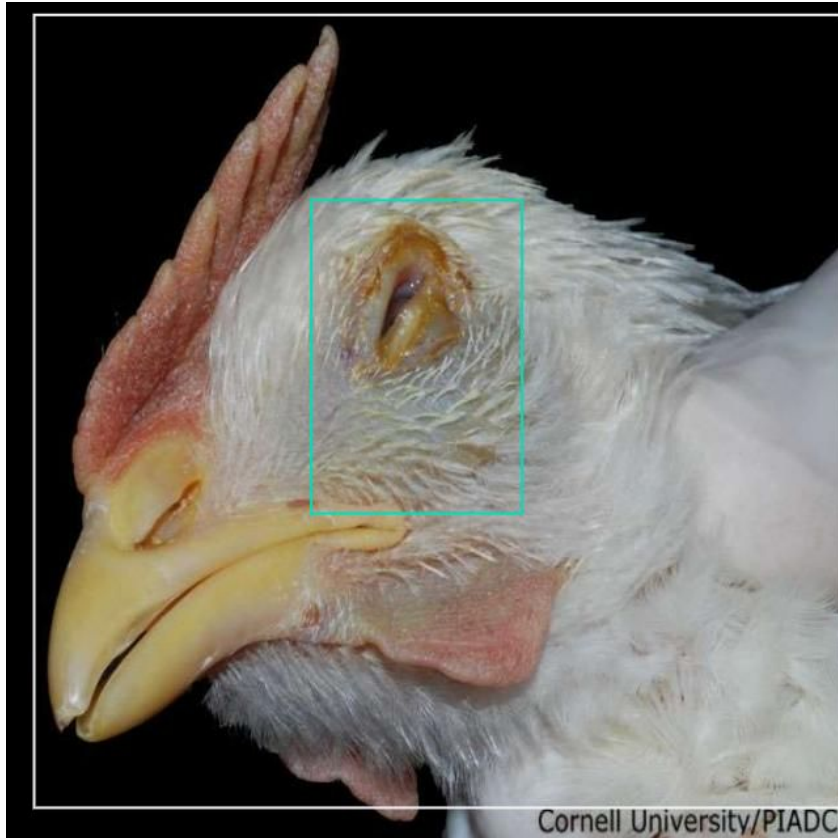




# BIRD FLU DETECTION IN CHICKENS

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.

## HANDLING THE DATASET

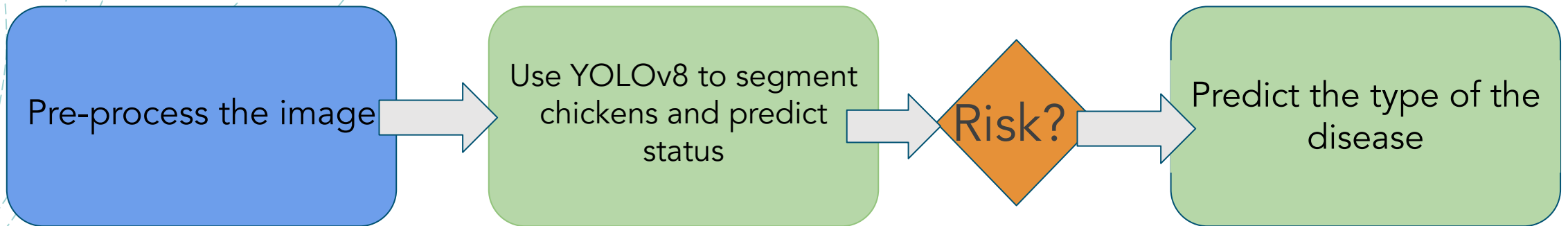


1. Locate and combine data from various sources to create a dataset that contains images of chickens, some healthy and some with Bird Flu.
2. Add another dimension to the dataset by labeling each image with annotations marking disease areas.
3. Visit the Roboflow dataset page.
4. Click 'Download Dataset'.
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.

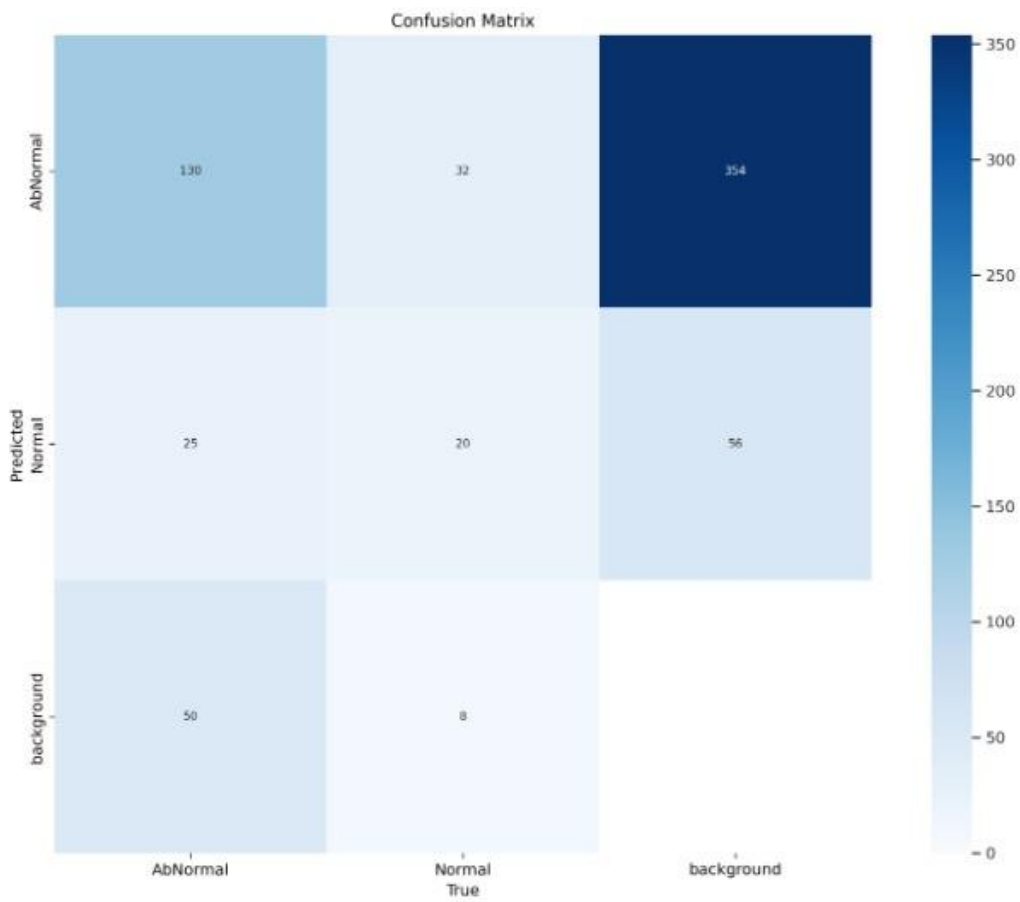




## ARCHITECTURE - YOLOv8



# 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

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