

AGENDA

BUSINESS PROBLEM

DATA & METHODS

RESULTS

CONCLUSIONS & NEXT STEPS



O DATA O



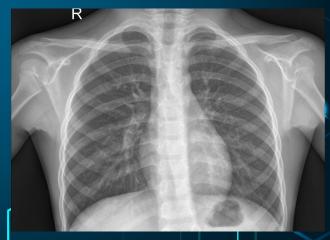
Pneumonia



X-Ray Images

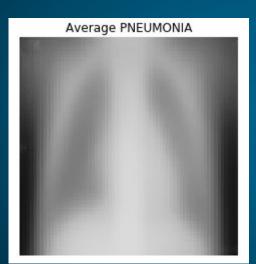
- 6,000 labeled images of patients with/without pneumonia
- 1,341 healthy, 3,875 pneumonia
 - 64 x 64 image size

Normal

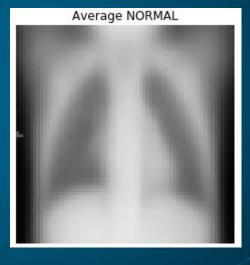


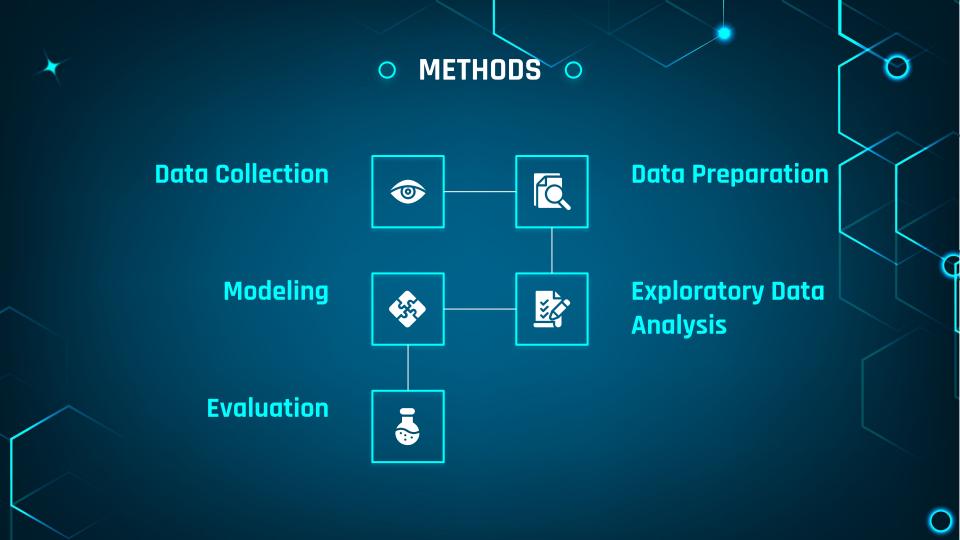
O EDA O

Pneumonia



Normal





O RESULTS O

Final Model



Image Augmentation with rotation

- 4 Convolution Layers using relu activation
- 4 Dense Hidden Layers using relu activation

Output Layer using sigmoid activation

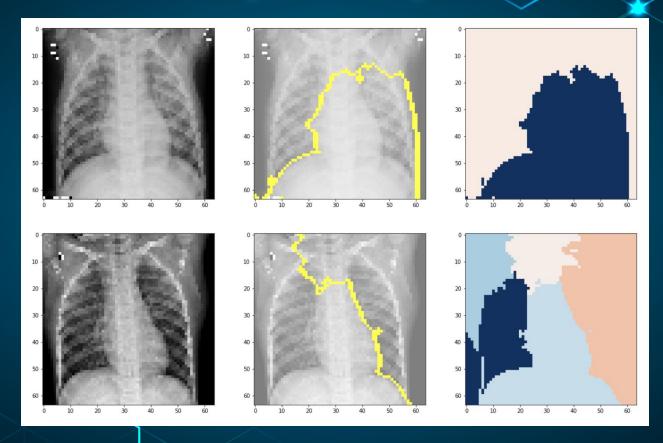
85.8%

Recall

90.0%

Accuracy

• RESULTS •



Confusion Matrix

Final Model Predictions on Test Set

		Predicted		
		Normal		Pneumonia
Actual	Normal	193		30
	Pneumonia	32		345



