



Predicting Pneumonia

Module 4 Project



Deep Learning Models

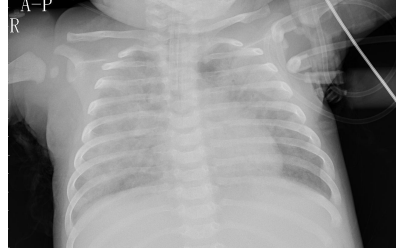
- The Data
- The Models
- Predictions
- Alternate Explorations



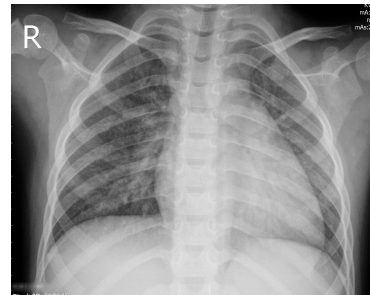
DATA

X-rays

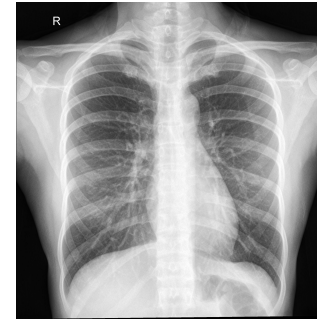
- Imbalance
 - Pneumonia - 1134
 - Viral
 - Bacterial
 - Normal - 84



Bacterial Pneumonia



Viral Pneumonia



Normal



The Models

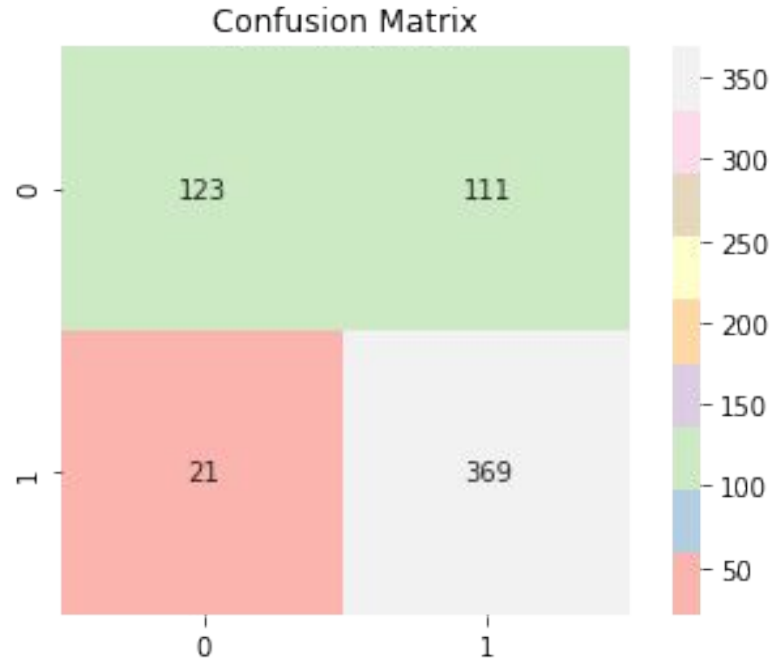
Deep Learning

- History
- Action
- Statistics



Statistics

- Accuracy: 0.79
- Error: 0.21
- Precision: 0.77
- Recall: 0.95
- F1 score: 0.85





Thank You!

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Future Considerations

- Find a more balanced dataset.
- Continue to tune parameters/hyperparameters.