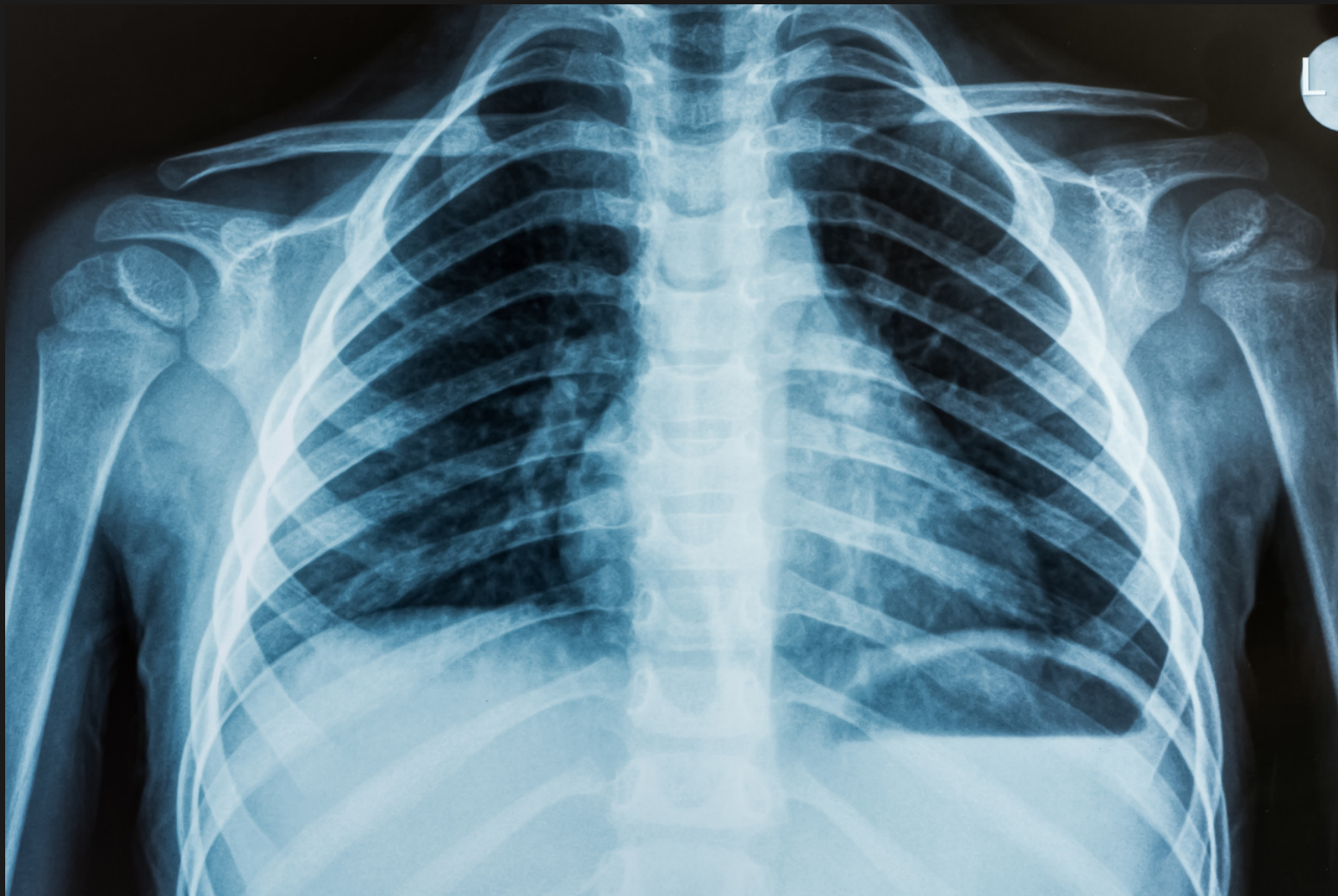


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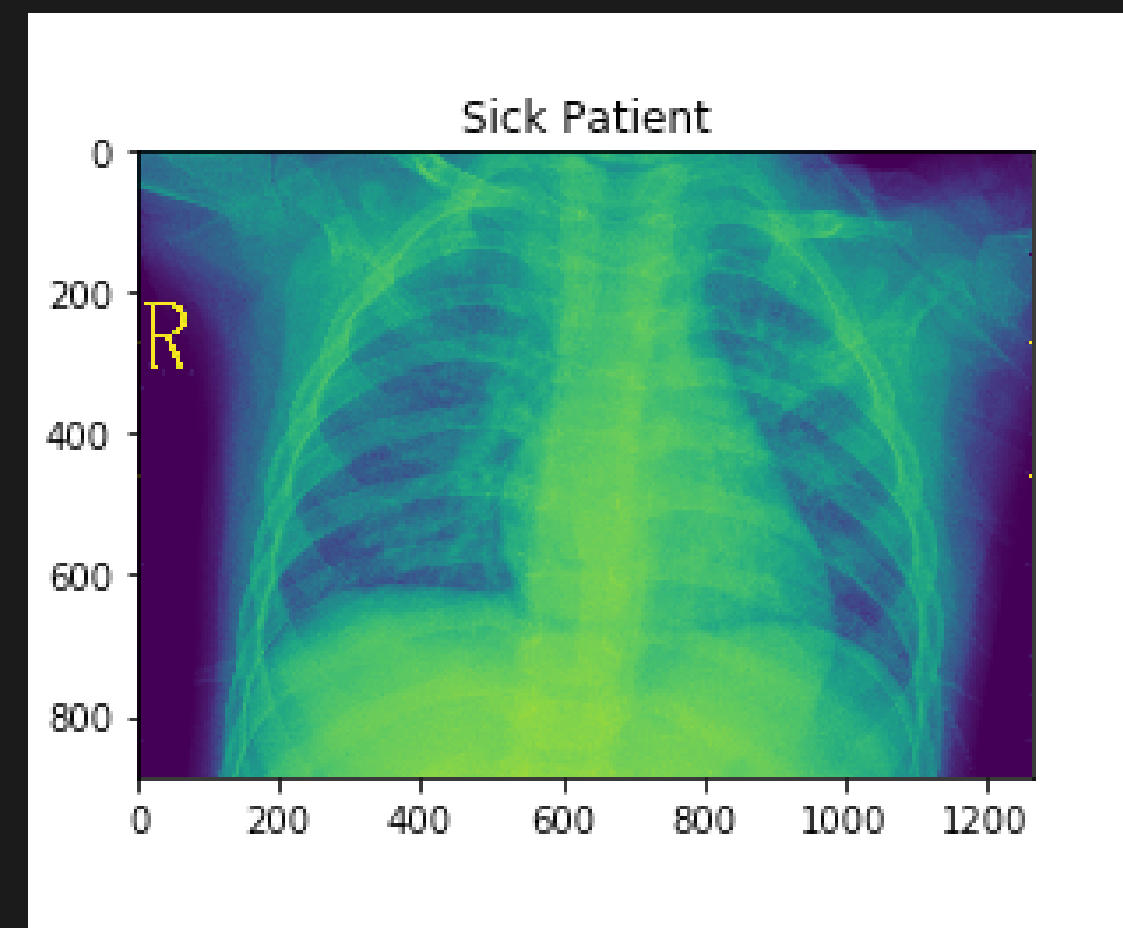
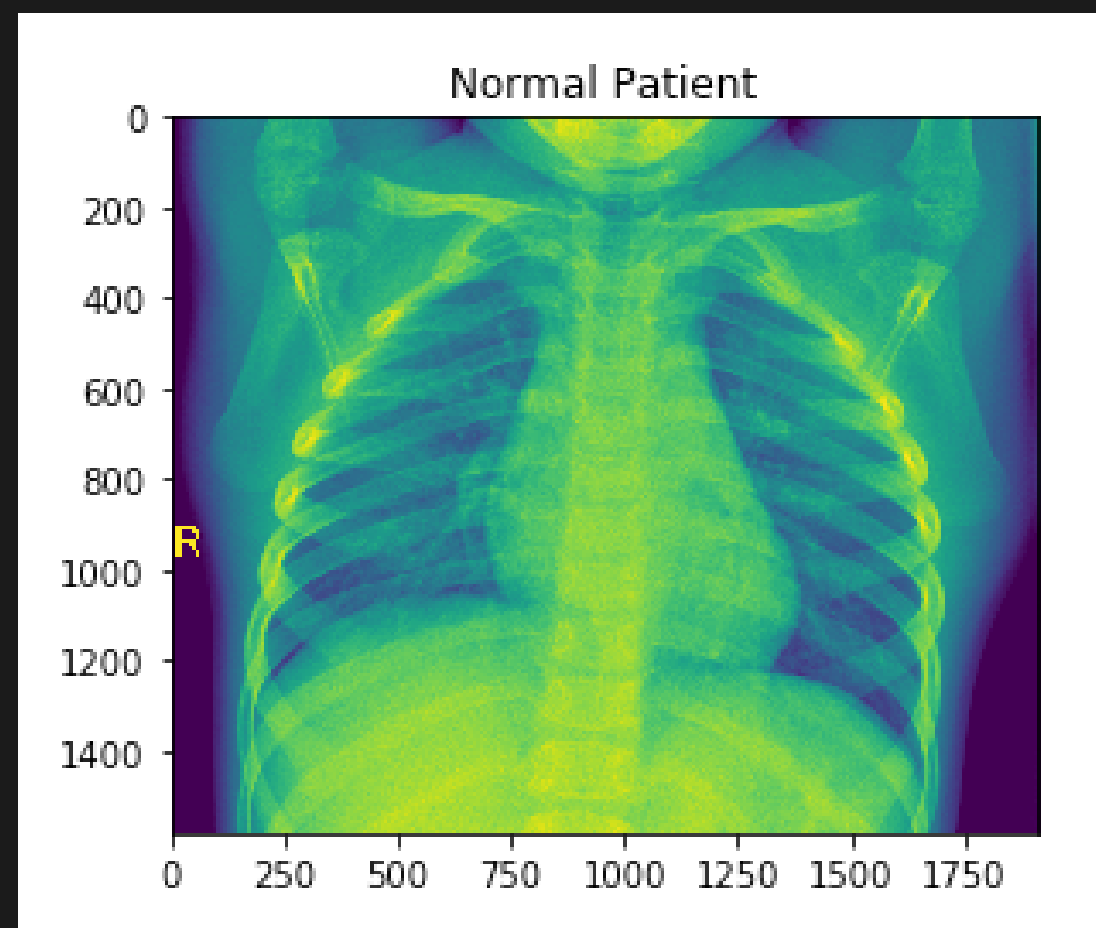
Image Classification: Using CNN's to classify X-ray pictures of patients



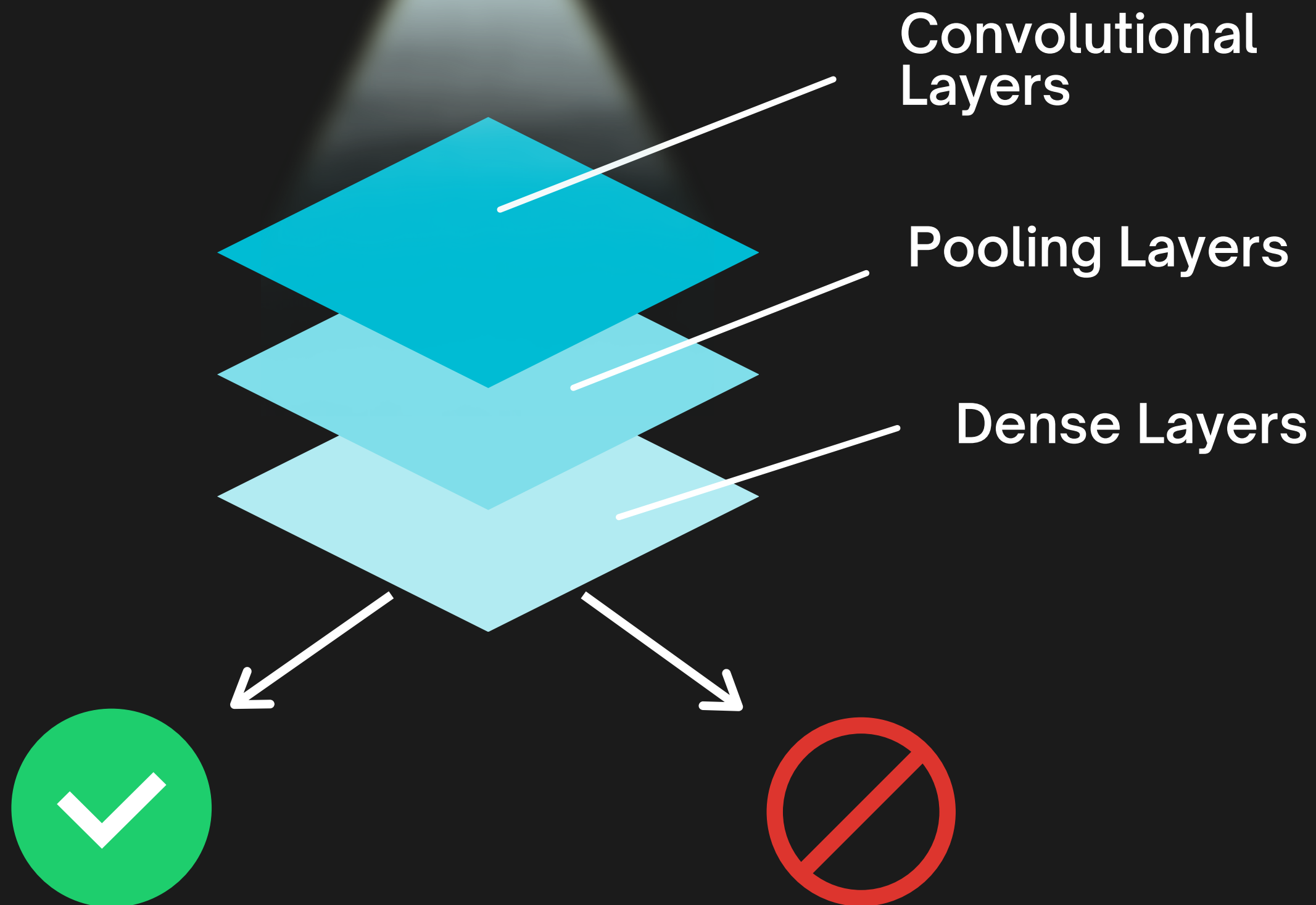
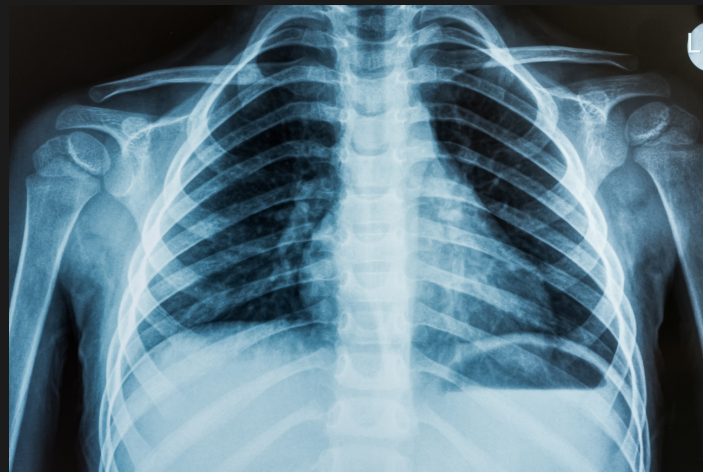
Claudio perez

6/10/2020

The task



Our tool



4 Models

BASE MODEL

83% test accuracy
98% recall



SURVEY MODEL

84% test accuracy
96% recall



TUNED MODEL

90% test accuracy
98% recall



PRETRAINED

80% test accuracy
99% recall



Further steps

Augmented Data

Artificially create bigger data sets.

Improve Validation Sets

Divide data into an appropriate ratio.

Address class imbalance

!Better data?



June 2020
Flatiron
School

Thank You!

**FOR QUESTIONS OR
COMMENTS**

WEBSITE

[https://github.com/claudiope
rezro/pneumonia_classifier](https://github.com/claudiopezro/pneumonia_classifier)