Pneumonia Detection

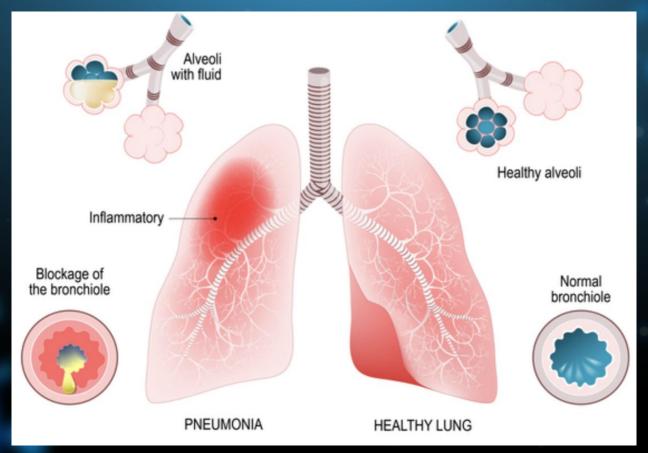
Qilun Chen

Instructors: Gowtham and Comeaux

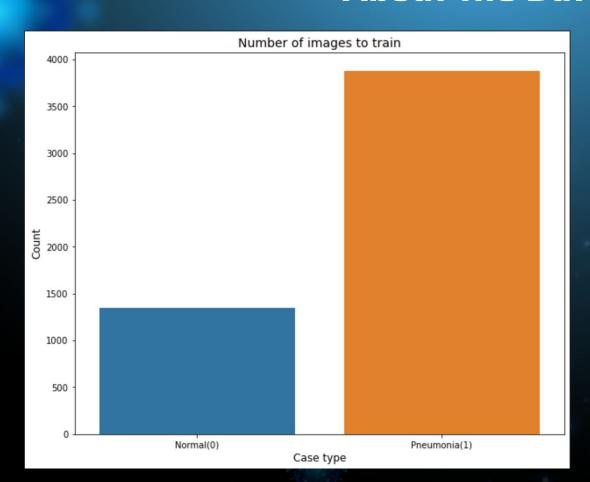
Define the Problem

Identifying whether or not they have pneumonia by Image-Based Deep Learning

Symptoms of the Disease



About the Data





Mendeley Data

- University of California
 San Diego
- Guangzhou Women and Children's Medical Center

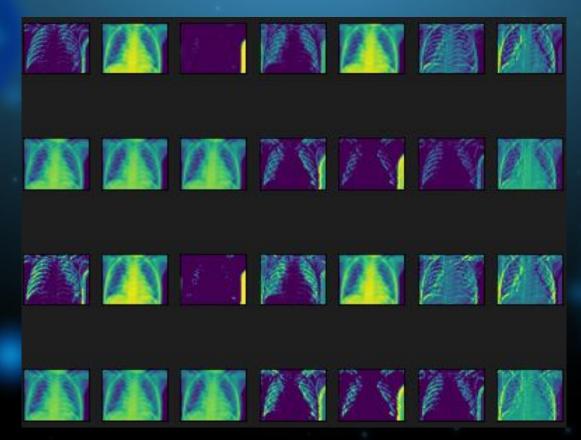
Meet Data



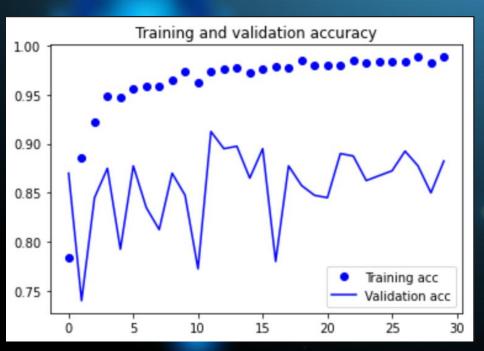
Meet Data

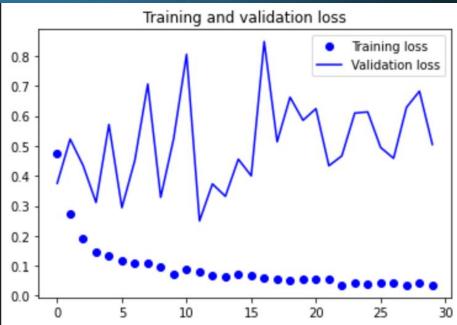


The Feature Map

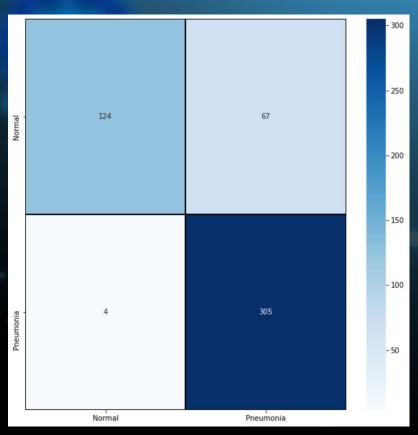


Visualizing model performance





Confusion matrix



Model Accuracy 86.5%

My model say "it is pneumonia"







My model say "it is not pneumonia"







Optimize

We see that our accuracy on test data is 86.5%. It may indicate overfitting.

Almost all pneumonia images are correctly identified but some normal images are fail to identify. I should aim to increase our precision.

- More Data
- CT Findings

THANKS