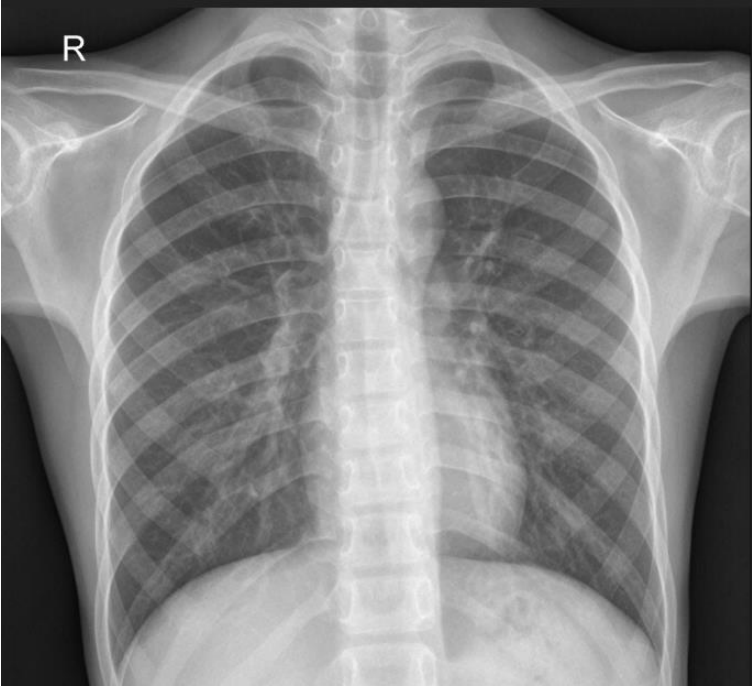


module 4 final project

ASAD RAHMAN



PROJECT AIMS

Increase efficiency in Pneumonia detection in X-rays

METHODOLOGY



DATASET: 5,863 X-Rays



CREATE and TEST MODEL



IMPROVE MODEL with
OPTIMIZATION

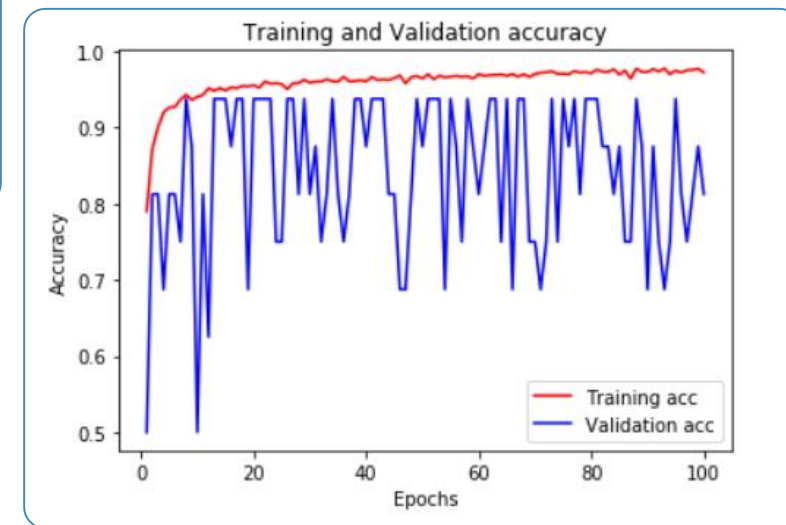
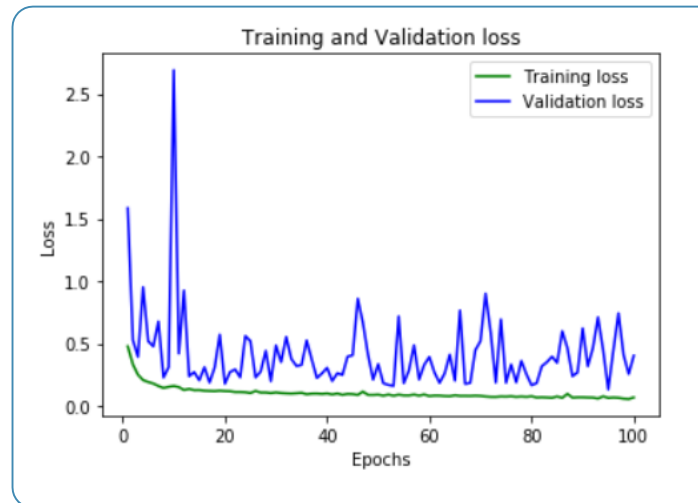


THE DATA

- Pediatric patients
- One to Five years of age
- Guangzhou Women and Children's Medical Center

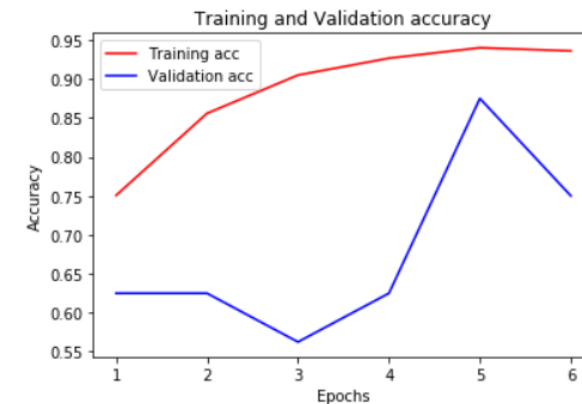
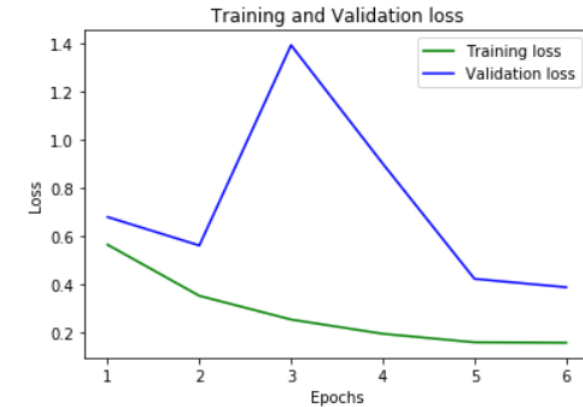
NEURAL NETWORK: BASELINE MODEL

- Base Keras model obtained 98% accuracy on training images
- Only 74% accuracy on testing images



Convolutional Neural Network

- Testing image accuracy 80%
 - 6% increase on individual subtleties
- Greater usability with newer images



Future Recommendations



OPTIMIZE NEURAL
NETWORK



INCREASE TESTING
TIME



INCREASE TESTING
DATA SET

Thank You

