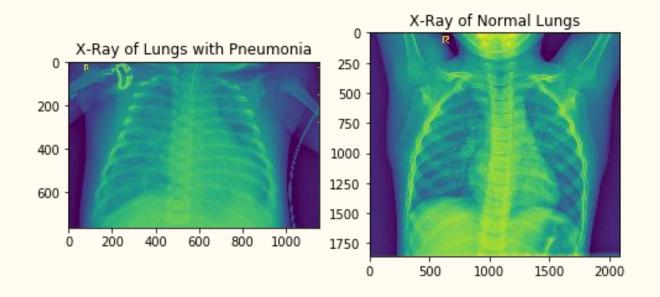
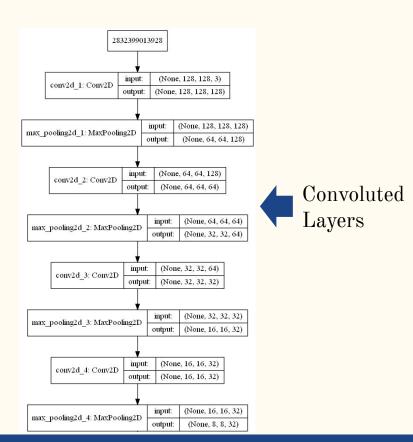
## Binary Classification of X-Rays with Convolutional Neural Networks

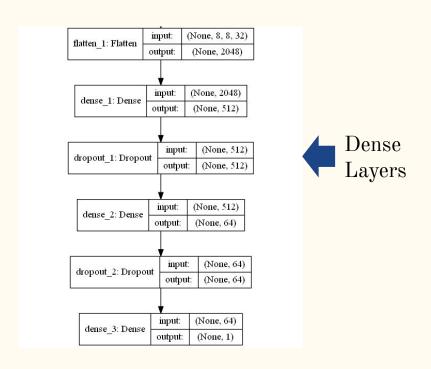
Kyle Aguilar

#### The Dataset

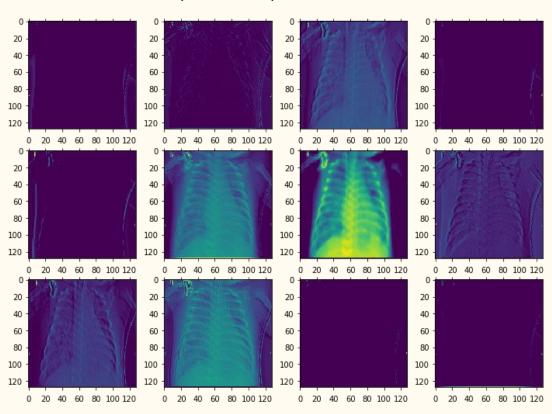


#### Neural Networks: An Introduction

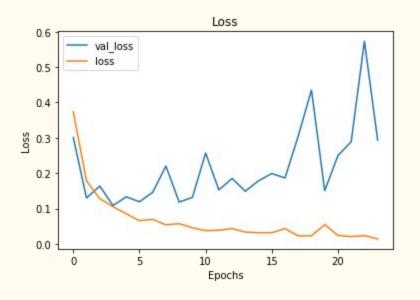


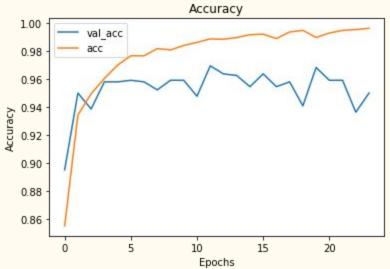


## Neural Networks (con't)

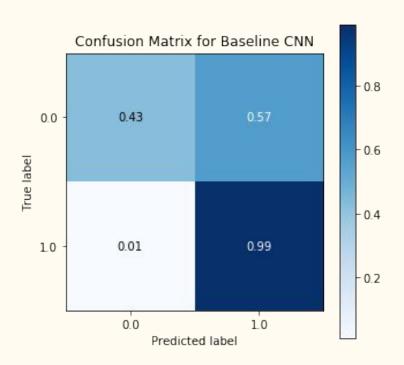


## Iterating Over CNNs





#### Evaluating Model Performance



## Evaluating Model Performance (con't)

	precision	recall	f1-score	support
Normal	0.93	0.43	0.59	237
Pneumonia	0.83	0.99	0.90	640
accuracy			0.84	877
macro avg	0.88	0.71	0.75	877
weighted avg	0.85	0.84	0.82	877

#### Future Work



X-Rays From Other Angles



Other Chest X-Ray Diagnosis



Medical Imagenet
Training

# Thank you.