Pneumonia Detection

Business Problem

Data Understanding

Modeling

Results and Evaluation

Recommendations and Next Steps

Data Understanding

The dataset from Kaggle contained X-ray images for patients with and without pneumonia.

Train set:
Pneumonia =3575
Normal=1041

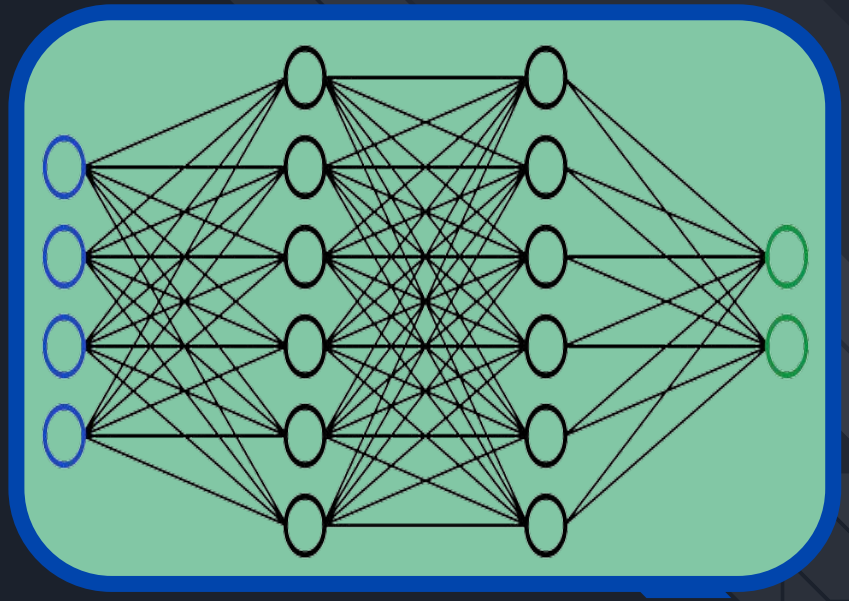
Validation set:
Pneumonia =308
Normal=308

Test set:
Pneumonia =390
Normal=234

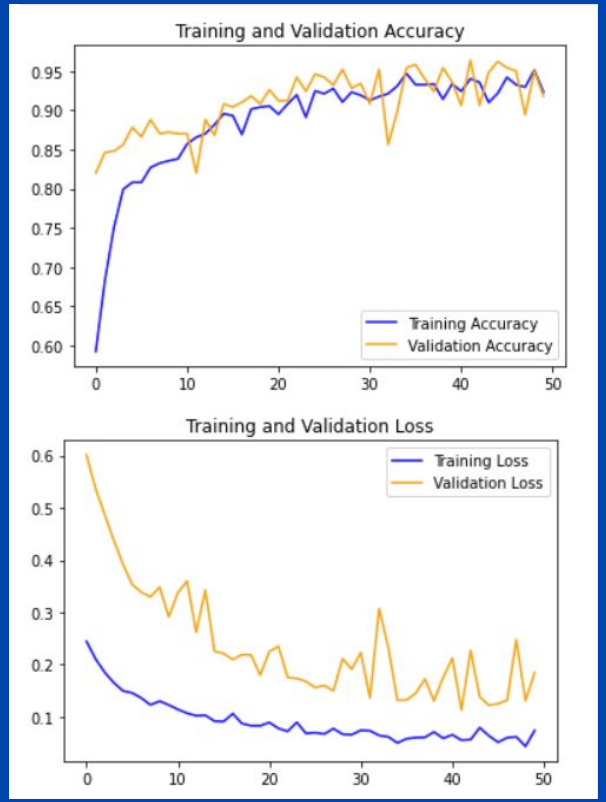
Modeling

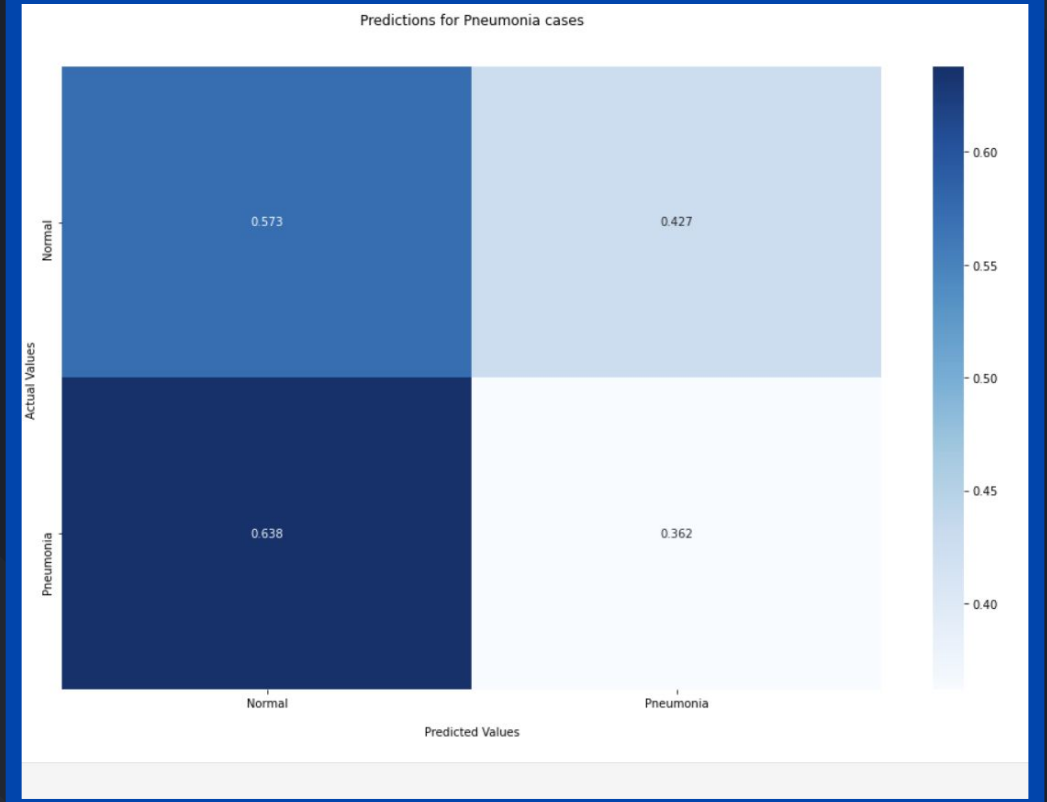
Neural Networks

- Process complex data such as image
- Fast
- Efficient



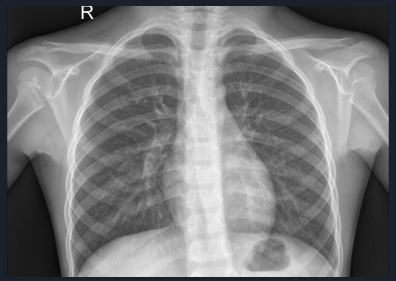
Results and Evaluation





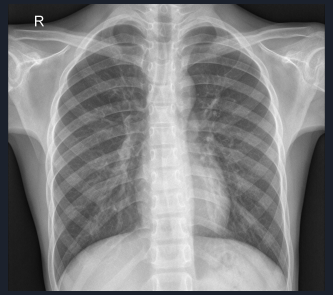
Results and Evaluation

Actual: Normal
Predicted: Normal

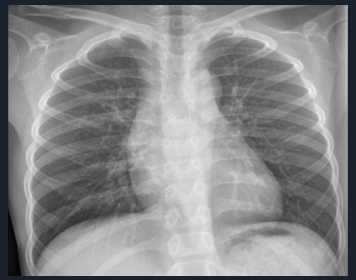


Actual: Normal
Predicted: Pneumonia

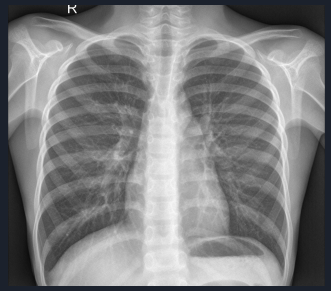
Actual: Normal
Predicted: Normal



Actual: Normal
Predicted: Normal



Actual: Normal
Predicted: Pneumonia



Recommendations

No recommendations given at this time

Next Steps

- Use other transfer learning models
- Tune transfer learning models
- Gather more information

Thank you!

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