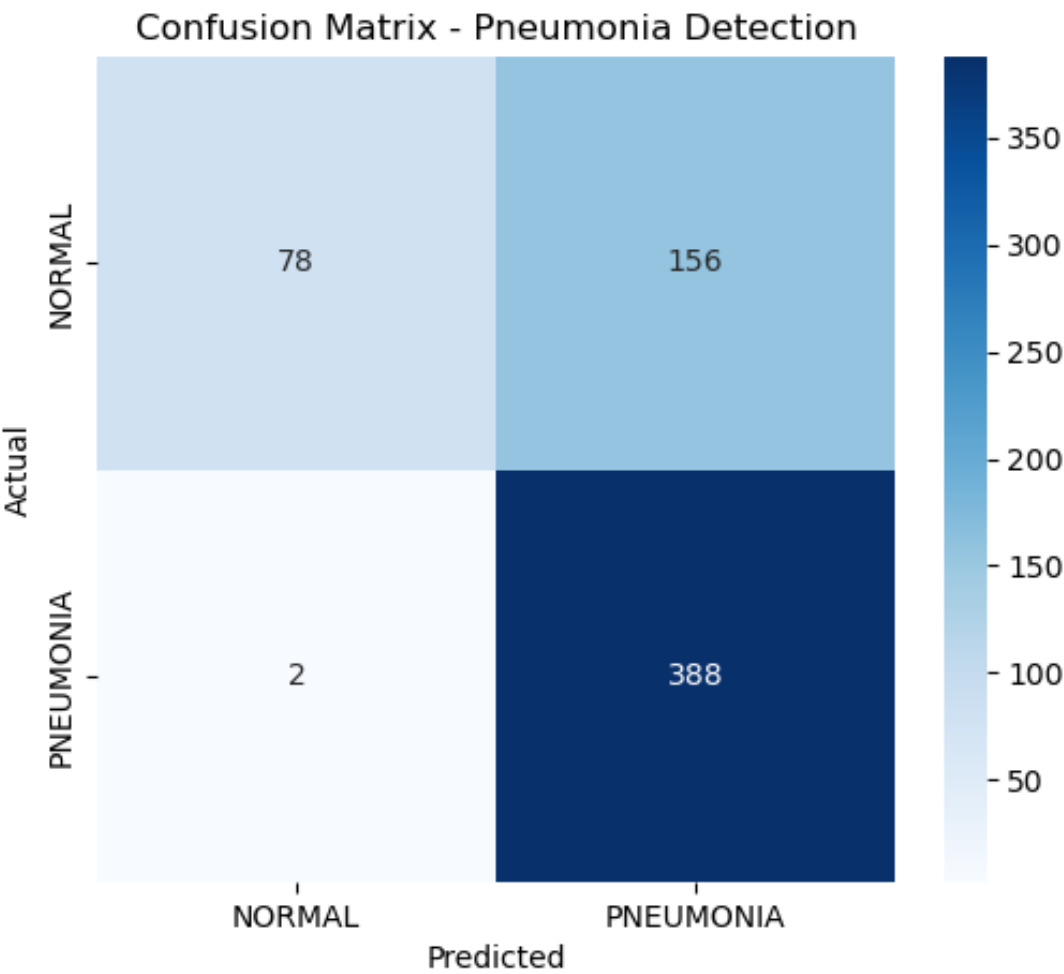


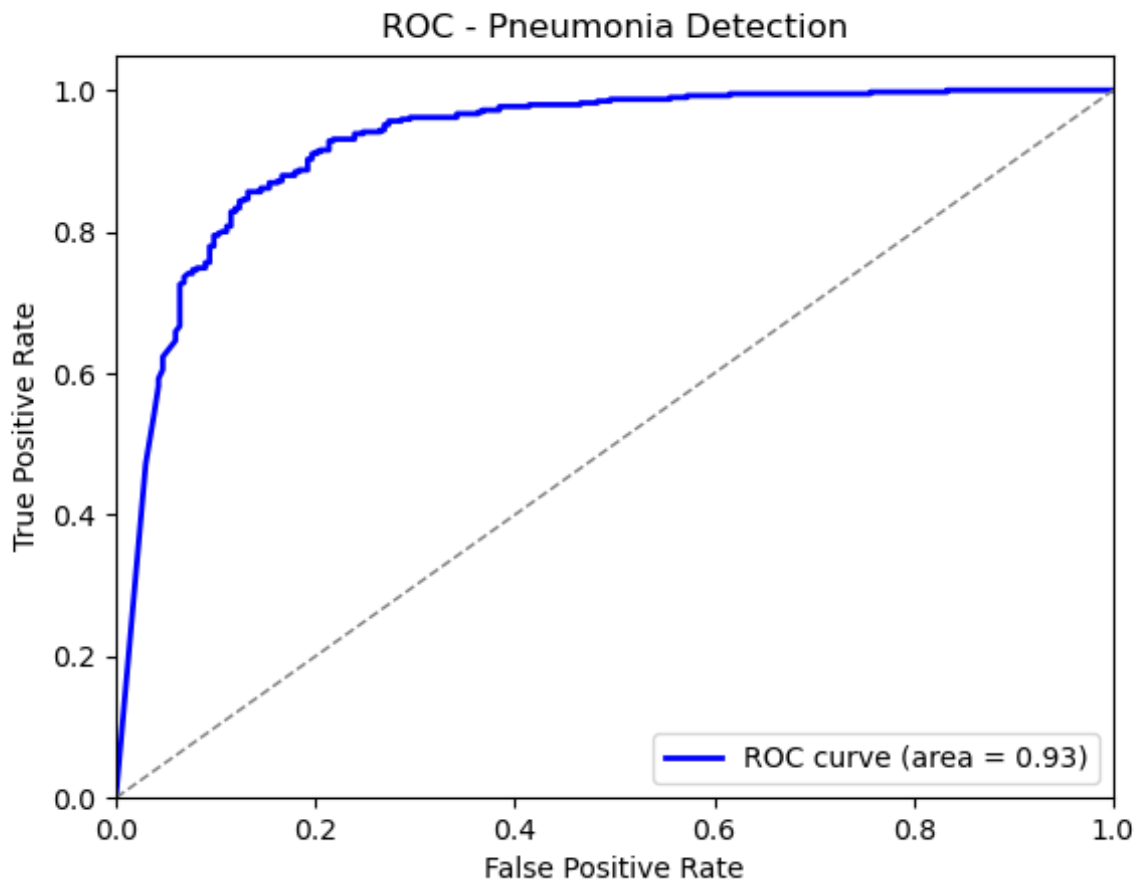
Pneumonia Detection Report

Objective:
The objective of this task is to develop a CNN model to classify chest X-ray images into Pneumonia or Normal categories.

Test Accuracy: 0.75

Classification Report:				
	precision	recall	f1-score	support
NORMAL	0.97	0.33	0.50	234
PNEUMONIA	0.71	0.99	0.83	390
accuracy		0.75	624	
macro avg	0.84	0.66	0.66	624
weighted avg	0.81	0.75	0.71	624





Observations:

- CNN model effectively distinguishes Pneumonia from Normal X-rays.
- ROC curve shows high true positive rate and low false positive rate.
- Confusion matrix confirms most samples are correctly classified.

Conclusion:

The CNN model achieved high accuracy on the test dataset, demonstrating the potential of deep learning in medical image classification for clinical decision support.