

Skin Cancer Detection Using Deep Learning Models

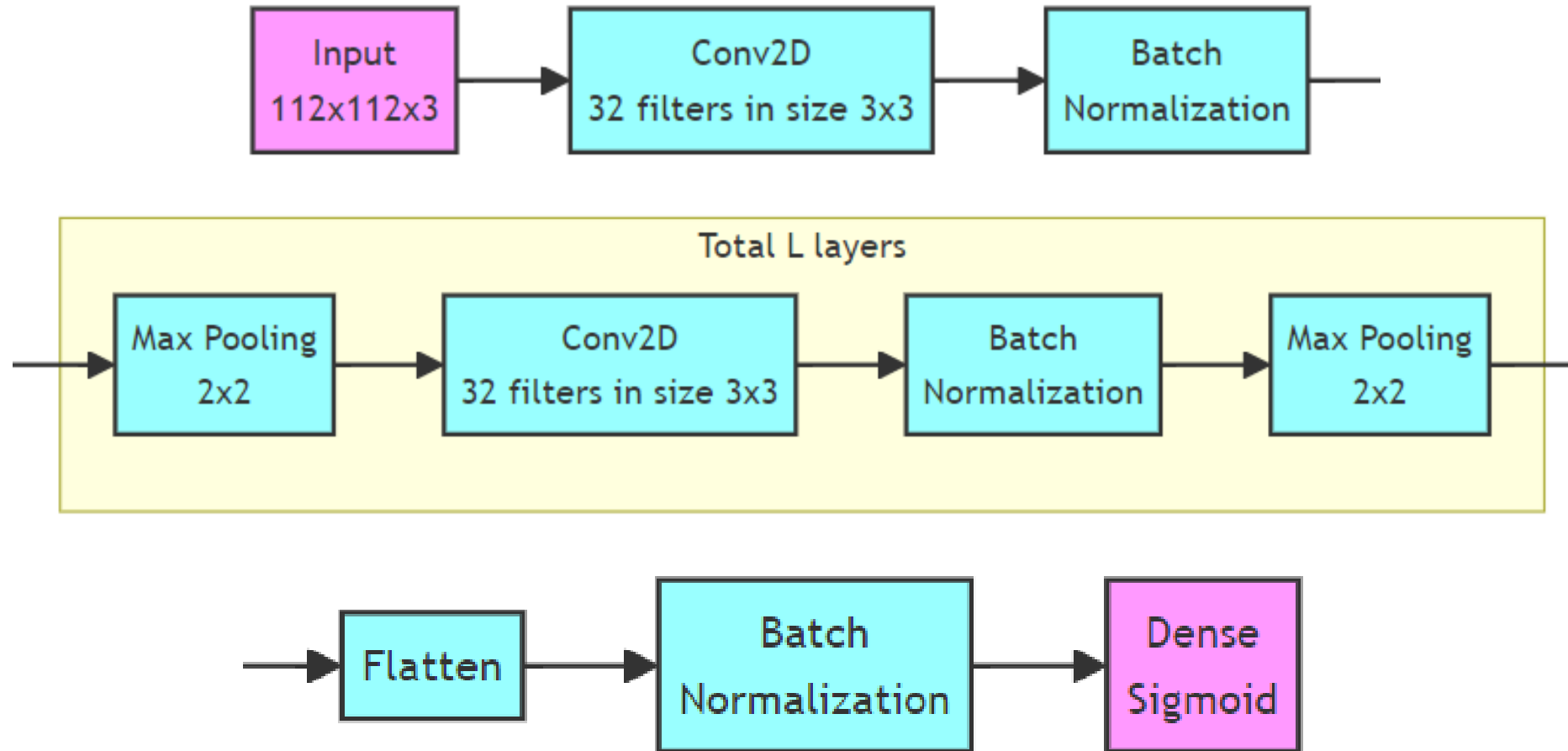
What is Neoplasm & Our objective

Given a Neoplasm



The question arises whether it is possible to identify this from an image?

Methods

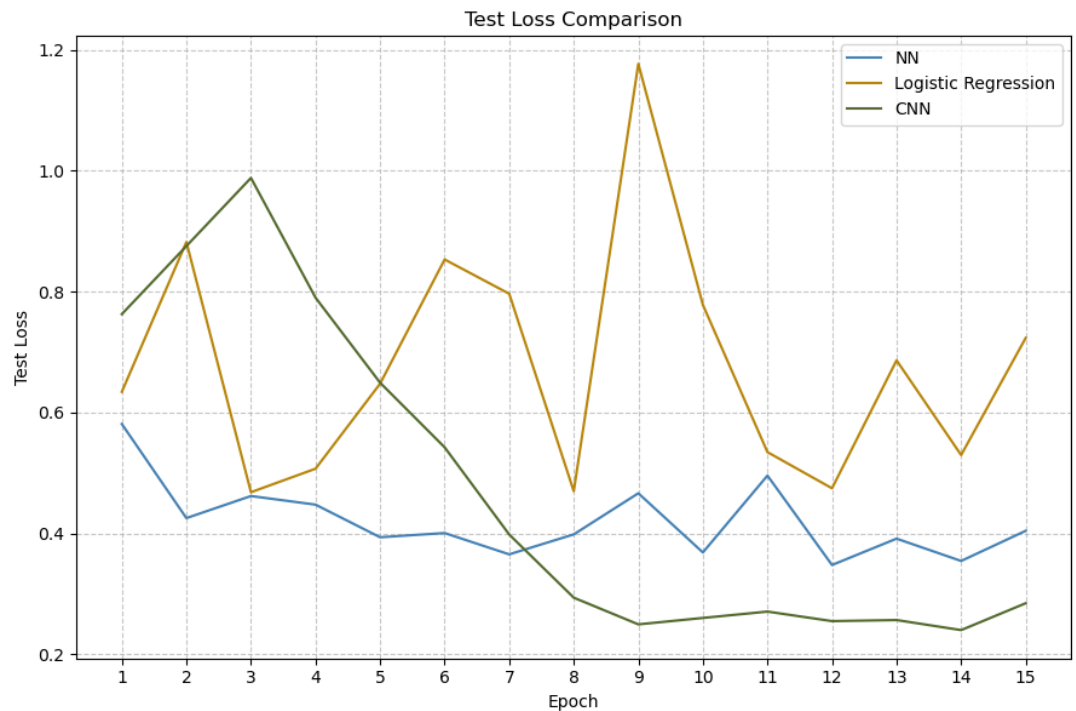
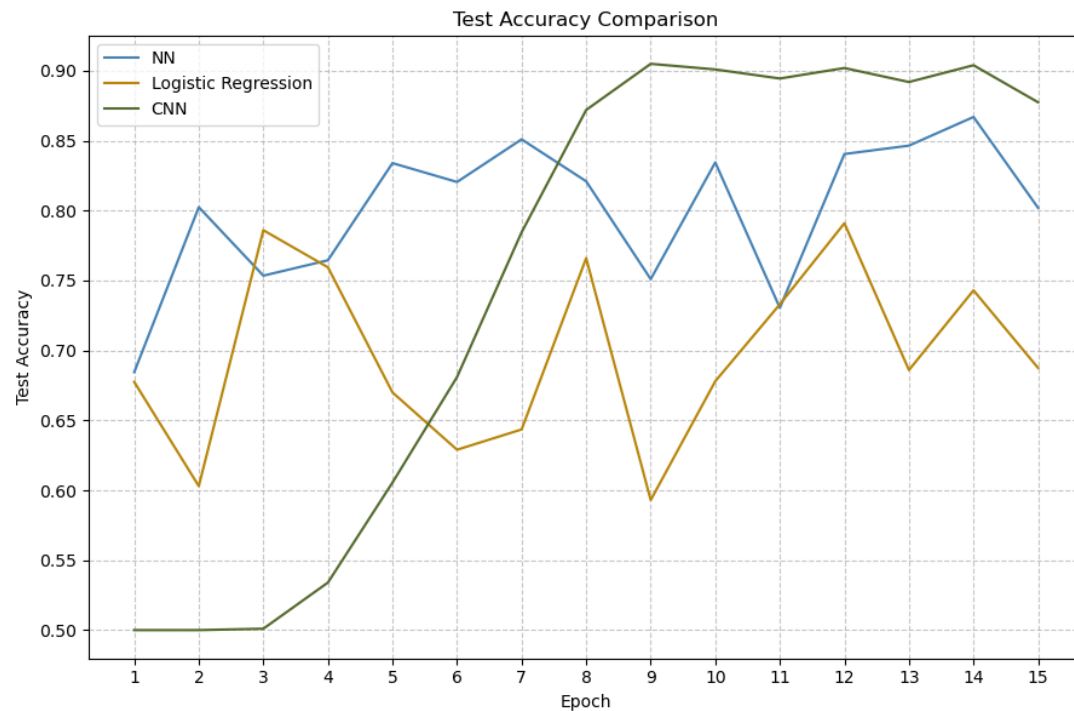


Training

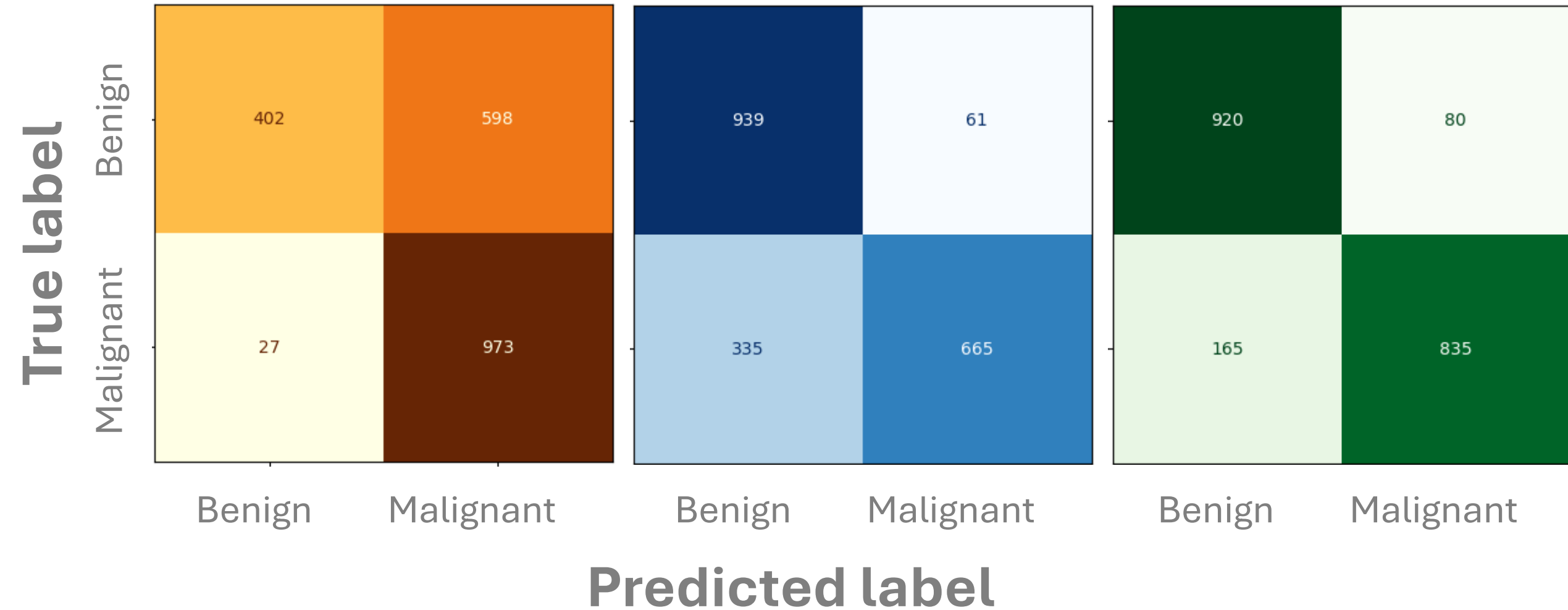
Adam | Log loss | 15 epochs | 128 size batch

Results

Model	Accuracy	Precision	Recall	Loss
Logistic Regression	69%	62%	97%	0.312
NN	80%	91%	67%	0.198
CNN	88%	91%	84%	0.112



Results – Confusion Matrixes



Prediction Examples

Prediction: Benign
True: Benign
0.07
✓



Prediction: Benign
True: Benign
0.03
✓



Prediction: Benign
True: Benign
0.13
✓



Prediction: Malignant
True: Benign
0.77
✗



Prediction: Benign
True: Benign
0.04
✓



Prediction: Benign
True: Benign
0.40
✓

