Customer Churn Prediction Using ANN

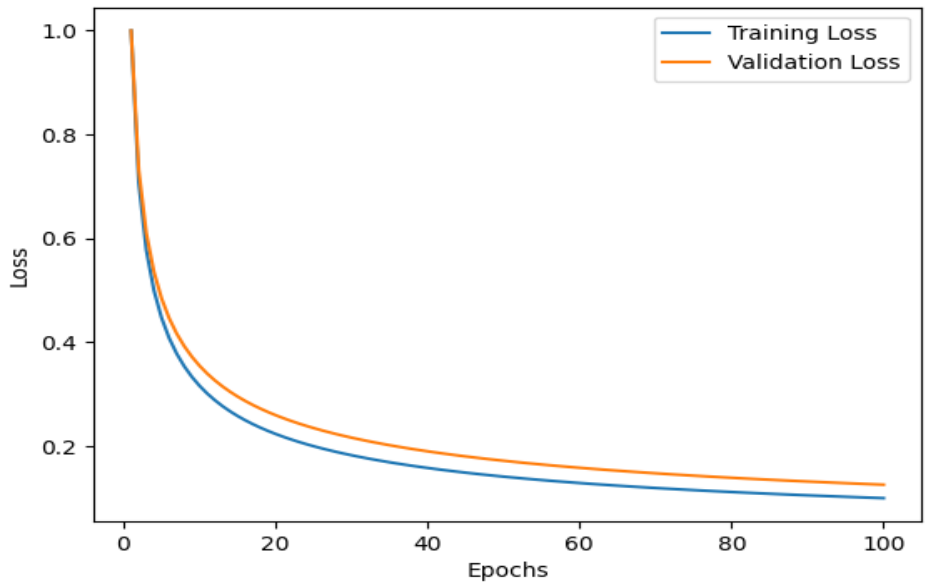
Overview
This project predicts customer churn using an Artificial Neural Network (ANN).

Model Summary
• Input Layer: 11 neurons
• Hidden Layers: 16, 8 neurons
• Output Layer: 1 neuron (Sigmoid)

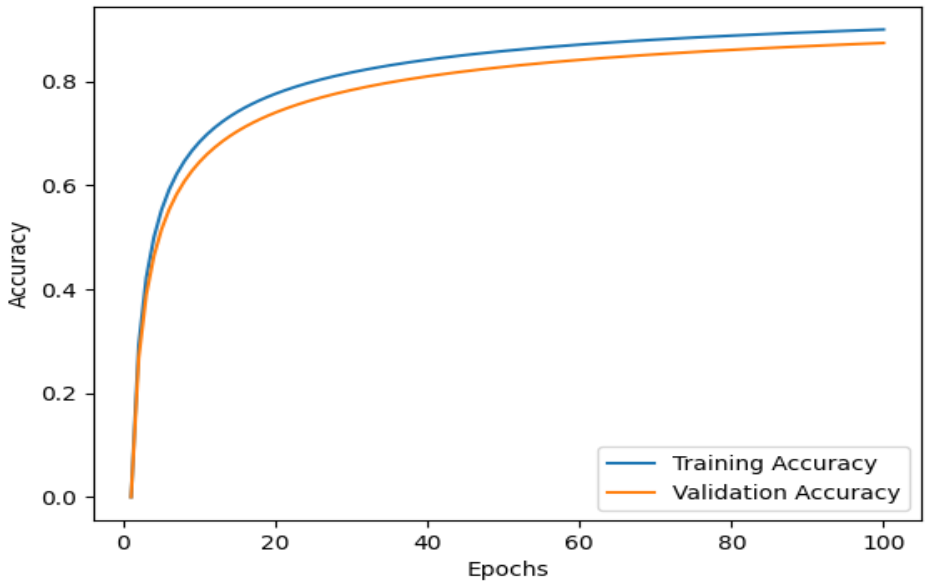
Training Details
Optimizer: Adam
Loss: Binary Crossentropy
Epochs: 100
Batch Size: 32

Results
Accuracy: ~87%
ROC-AUC: ~0.87

Training Loss Curve



Training Accuracy Curve


0.8
0.6
0.4
0.2
0.0
Accuracy
0
20
40
60
80
100
Epochs
Training Accuracy
Validation Accuracy