# **Model Evaluation Report**

1.Overview:

This evaluation report compares two machine learning models — **SVM (Support Vector Machine)** and **Gradient Boosting** — based on their performance using **accuracy**, **precision**, **recall**, and **F1-score**. These metrics help to understand how well the models are performing on both **positive** and **negative** classes.

2.Comparison between output of the two models:

SVM Results

Accuracy: 0.7985981122306742

precision recall f1-score support

0 0.75 0.54 0.63 7849

1 0.81 0.92 0.86 17260

accuracy 0.80 25109

Gradient Boosting Results

Accuracy: 0.8417698833087738

precision recall f1-score support

0 0.77 0.71 0.74 7849

1 0.87 0.90 0.89 17260

accuracy 0.84 25109

3.Best model

The best model is Gardient Boosting model. It achieved 84% of accuracy.