Combined dataset v1 linear learner 70/15/15:

Accuracy : 0.7915

Precision : 0.4615

Recall : 0.0012

F1-score : 0.0023

Confusion Matrix:

[[38827 14]

[10215 12]]

Classification Report:

precision recall f1-score support

0 0.79 1.00 0.88 38841

1 0.46 0.00 0.00 10227

accuracy 0.79 49068

macro avg 0.63 0.50 0.44 49068

weighted avg 0.72 0.79 0.70 49068

Combined dataset v2 linear learner 70/15/15:  
  
Accuracy : 0.7943

Precision : 0.5702

Recall : 0.0524

F1-score : 0.0960

Confusion Matrix:

[[38437 404]

[ 9691 536]]

Classification Report:

precision recall f1-score support

0 0.80 0.99 0.88 38841

1 0.57 0.05 0.10 10227

accuracy 0.79 49068

macro avg 0.68 0.52 0.49 49068

weighted avg 0.75 0.79 0.72 49068

Combined dataset v2 xgboost:

Accuracy : 0.8012757805494416

Precision: 0.64

Recall : 0.10638505915713307

F1-score : 0.18244319610966714

ROC AUC : 0.693120653833251

Confusion Matrix:

[[38229 612]

[ 9139 1088]]

Classification Report:

precision recall f1-score support

0 0.81 0.98 0.89 38841

1 0.64 0.11 0.18 10227

accuracy 0.80 49068

macro avg 0.72 0.55 0.53 49068

weighted avg 0.77 0.80 0.74 49068