Write up Tuning Parameters for machine learning - how we increased the accuracy and what the model was predicting.

Original Gradient Boosting

...	precision	recall	f1-score	support
0	0.71	0.61	0.66	28194
1	0.87	0.91	0.89	82682
accuracy			0.84	110876
macro avg	0.79	0.76	0.78	110876
weighted avg	0.83	0.84	0.83	110876

Gradient Boosting after HyperTuning

	precision	recall	f1-score	support
0	0.71	0.60	0.65	27993
1	0.87	0.92	0.89	83045
accuracy			0.84	111038
macro avg	0.79	0.76	0.77	111038
weighted avg	0.83	0.84	0.83	111038

Logistic Regression Report

	precision	recall	f1-score	support
0	0.63	0.52	0.57	27993
1	0.85	0.90	0.87	83045
accuracy			0.80	111038
macro avg	0.74	0.71	0.72	111038
weighted avg	0.79	0.80	0.80	111038

SVM Report

	precision	recall	f1-score	support
0	0.83	0.05	0.09	35164
1	0.76	1.00	0.86	103634
accuracy			0.76	138798
macro avg	0.79	0.52	0.48	138798
weighted avg	0.78	0.76	0.67	138798