

Ishan Garg (Weekly 2)

I have done both the algorithms, and for Bonus I have also done Random forest as well as Gradient Boosting Algorithm.

Below is the screenshot of precision

```
==== Precision Comparison ====  
  
LogisticRegression: 0.5164  
  
Keras_MLP: 0.9485  
  
RandomForest: 0.8669  
  
GradientBoosting: 0.9652
```

Below is the screenshot of Classification report of all models

--- Classification Reports of Every Model ---

LogisticRegression :

	precision	recall	f1-score	support
0	0.78	0.90	0.84	72066
1	0.73	0.52	0.60	37948
accuracy			0.77	110014
macro avg	0.75	0.71	0.72	110014
weighted avg	0.76	0.77	0.76	110014

Keras_MLP :

	precision	recall	f1-score	support
0	0.97	0.87	0.92	72066
1	0.79	0.95	0.86	37948
accuracy			0.90	110014
macro avg	0.88	0.91	0.89	110014
weighted avg	0.91	0.90	0.90	110014

RandomForest :

	precision	recall	f1-score	support
0	0.93	0.90	0.91	72066
1	0.82	0.87	0.84	37948
accuracy			0.89	110014
macro avg	0.88	0.88	0.88	110014
weighted avg	0.89	0.89	0.89	110014

GradientBoosting :

	precision	recall	f1-score	support
0	0.98	0.86	0.92	72066
1	0.79	0.97	0.87	37948
accuracy			0.90	110014
macro avg	0.88	0.92	0.89	110014
weighted avg	0.91	0.90	0.90	110014