

Credit Card Fraud Detection Dataset

- Train model: Logistic Regression (Log Reg)
- Features: 37
- Training size: 227846
- Test size: 56961
- Number of epoch: 1000
- Run time: 8 second
- Dataset characteristic: 227846 = 394 (Fraud) + 227452 (Normal)

Credit Fraud	Accuracy	Recall	Precision	AUC
Plaintext	0.999	0.754	0.871	0.877
XOR	0.999	0.754	0.871	0.877
DP ($\epsilon = 1$)	0.889	0.467	0.008	0.679