Machine Learning Major Project

Online Payments Fraud Detection with Machine Learning

Here we are training a machine learning model for classifying fraudulent and non fraudulent payments.

For this, we are attaching a dataset containing information about online payment fraud, so that we can understand what type of transactions lead to fraud.

We are providing a **dataset** from Kaggle, which contains historical information about fraudulent transactions which canbe used to detect fraud in online payments. Below are all the columns from the dataset I'm using here

- 1. step: represents a unit of time where 1 step equals 1 hour
- 2. type: type of online transaction
- 3. amount: the amount of the transaction
- 4. nameOrig: customer starting the transaction
- **5.** oldbalanceOrg: balance before the transaction
- 6. newbalanceOrig: balance after the transaction
- 7. nameDest: recipient of the transaction

- 8. oldbalanceDest: initial balance of recipient before thetransaction
- 9. newbalanceDest: the new balance of recipient after thetransaction
- 10. isFraud: fraud transaction

Dataset is attached below. Use this to detect online payment fraud using python.

TO BE SUBMITTED – Code of the project, in PDF Format.

Dataset:

	step	ty	pe amount	nameOrig	oldba	lanceOrg	newbalanceOrig
0	1	PAYME	NT 9839.64	C1231006815		170136.0	160296.36
1	1	PAYME	NT 1864.28	C1666544295		21249.0	19384.72
2	1	TRANSF	ER 181.00	C1305486145		181.0	0.00
3	1	CASH_0	UT 181.00	C840083671		181.0	0.00
4	1	PAYME	NT 11668.14	C2048537720		41554.0	29885.86
	na	meDest	oldbalanceDe	st newbaland	eDest	isFraud	isFlaggedFraud
0	M1979	787155	0	. 0	0.0	0	0
1	M2044	282225	0	. 0	0.0	0	0
2	C553	264065	0	. 0	0.0	1	0
3	C38	997010	21182	. 0	0.0	1	Θ
4	M1230	701703	0	. 0	0.0	0	Θ