

## Credit Card Fraud Detection Using Enhanced NAIVE BAYES

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Show what dataset looks like

Show info of missing values

Statistics of Valid and Fraud transactions

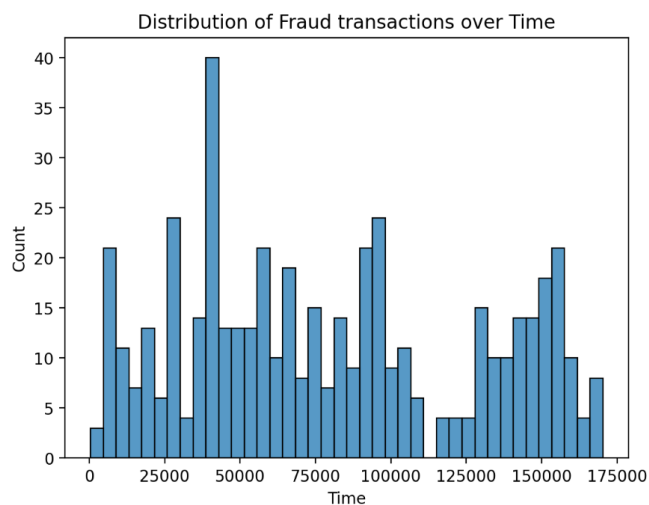
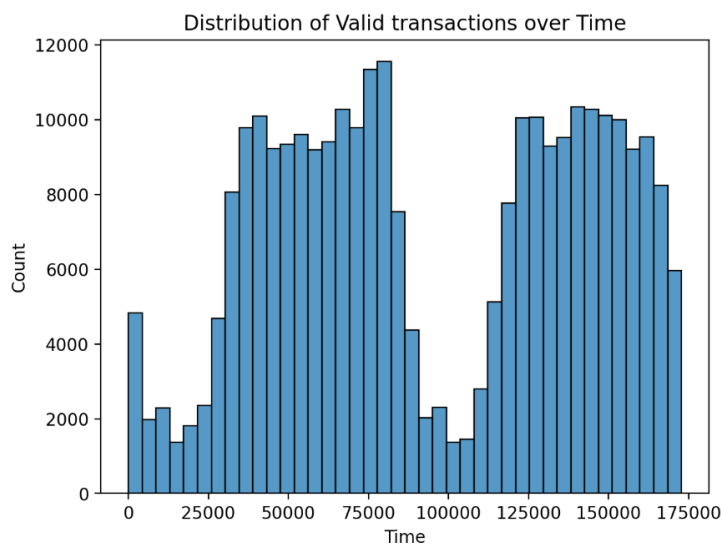
### Credit Card Fraud Detection !!

	Time	V1	V2	V3	V4	V5	V6	V7	V8	V9	V10
122954	76,755.0000	1.4369	-0.9178	0.0781	-1.3897	-1.2862	-1.1115	-0.5579	-0.2381	-2.4137	1
250554	154,967.0000	1.9303	-0.1524	-0.2731	1.5899	-0.4378	-0.2990	-0.2684	0.0047	1.2181	-0
35975	38,345.0000	-0.1871	0.6655	0.7251	1.3630	-0.2760	0.5842	-0.8107	-2.7427	-0.7670	-0
32141	36,657.0000	-1.4343	-0.3929	-1.0133	-3.5581	1.9614	2.6621	-0.6150	0.8614	-2.3565	1
49333	44,009.0000	-0.9563	-4.2551	0.2489	1.8960	-2.6190	0.7329	0.4618	-0.1556	0.1612	-0

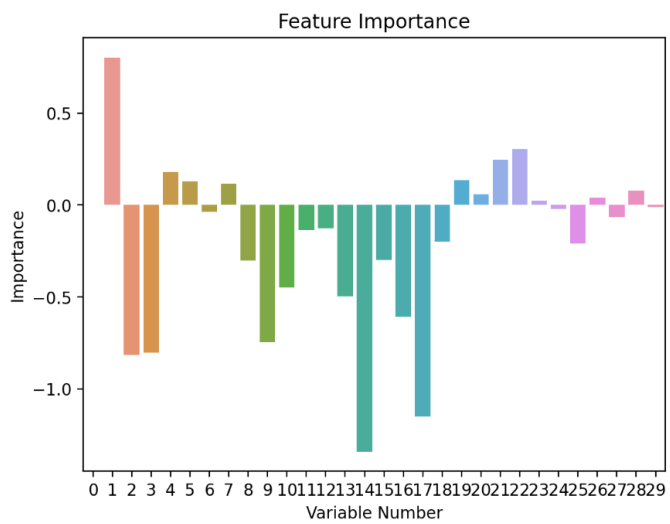
Shape of the Dataset (28481, 31)

Description of the Dataset

	Time	V1	V2	V3	V4	V5	V6	V7
count	28,481.0000	28,481.0000	28,481.0000	28,481.0000	28,481.0000	28,481.0000	28,481.0000	28,481.0000
mean	94,303.9781	0.0001	-0.0071	0.0140	-0.0099	0.0000	-0.0008	-4
std	47,450.5102	1.9390	1.6191	1.5201	1.4090	1.3526	1.3223	:
min	0.0000	-40.4701	-38.4308	-31.1037	-4.8973	-25.0258	-23.4967	-20
25%	53,923.0000	-0.9239	-0.6052	-0.6731	-0.8575	-0.6939	-0.7867	-4
50%	83,955.0000	0.0051	0.0561	0.1998	-0.0301	-0.0591	-0.2745	0



There seems to be a decrease in number of transactions around 100000 Time mark. This might be during night. This could be the time that favours the fraudsters when valid transactions are very low.



Accuracy: 0.9930128857835048

Confusion Matrix:

