

credit card fraud detection.ipynb

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importing the dependencies

```
import numpy as np
import pandas as pd
from sklearn.model_selection import train_test_split
# from sklearn.linear_model import LogisticRegression
from sklearn.metrics import accuracy_score
```

```
[12] credit_card_data = pd.read_csv('/content/creditcard.csv')
```

```
[13] credit_card_data.head()
```

	Time	V1	V2	V3	V4	V5	V6	V7	V8	V9	...	V21	V22	V23	V24	V25	
0	0	-1.359807	-0.072781	2.536347	1.378155	-0.338321	0.462388	0.239599	0.098698	0.363787	...	-0.018307	0.277838	-0.110474	0.066928	0.128539	-0.181
1	0	1.191857	0.266151	0.186480	0.448154	0.060018	-0.082361	-0.078803	0.085102	-0.255425	...	-0.225775	-0.638672	0.101288	-0.339846	0.167170	0.121
2	1	-1.358354	-1.340163	1.773209	0.379780	-0.503198	1.800499	0.791461	0.247676	-1.514654	...	0.247998	0.771679	0.909412	-0.689281	-0.327642	-0.131
3	1	-0.966272	-0.185226	1.792993	-0.863291	-0.010309	1.247203	0.237609	0.377436	-1.387024	...	-0.108300	0.005274	-0.190321	-1.175575	0.647376	-0.221
4	0	-1.450939	0.877737	1.518149	0.402934	0.403902	0.005221	0.592941	-0.270533	0.817739	...	-0.009431	0.798278	-0.137458	0.141267	-0.206010	0.501

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PRIT_PATEL_64_D2.xlsx

PRIT_PATEL_64_D2.xlsx(application/vnd.openxmlformats-officedocument.spreadsheetml.sheet) - 45751 bytes, last modified: 3/30/2023 - 100% done

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```
[14] credit_card_data.describe()
```

	Time	V1	V2	V3	V4	V5	V6	V7	V8	V9	...	V21
count	39702.000000	39702.000000	39702.000000	39702.000000	39702.000000	39702.000000	39702.000000	39702.000000	39702.000000	39702.000000	...	39701.000000
mean	25502.432497	-0.213932	0.051942	0.713780	0.189431	-0.231083	0.100915	-0.112981	0.041731	0.214179	...	-0.029662
std	12626.308343	1.831757	1.548373	1.506728	1.399784	1.379431	1.304722	1.244260	1.222742	1.225147	...	0.750969
min	0.000000	-30.552380	-40.978852	-31.103685	-5.172595	-42.147898	-23.496714	-26.548144	-41.484823	-7.175097	...	-20.262054
25%	14678.500000	-0.967117	-0.525207	0.233522	-0.717668	-0.835646	-0.638647	-0.597725	-0.152448	-0.555904	...	-0.236834
50%	30598.500000	-0.233669	0.101393	0.818163	0.185015	-0.267851	-0.158696	-0.073409	0.048385	0.091864	...	-0.077298
75%	35625.000000	1.160708	0.743741	1.447844	1.071347	0.297049	0.487010	0.433877	0.314947	0.930712	...	0.100244
max	39929.000000	1.960497	16.713389	4.101716	13.143668	34.099309	22.529298	36.677268	20.007208	10.392889	...	22.614888

8 rows x 31 columns

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