CODSOFT-MACHINE LEARNING

OUTPUT:

Task 2: Credit Card Fraud Detection

```
In [1]: runfile('C:/Users/jdcha/.spyder-py3/codsoft/Task2_fraud.py', wdir='C:/Users/jdcha/.spyder-py3/
codsoft')
 \verb|C:\Users>| jdcha\anaconda3\lib\site-packages\sklearn\linear\_model\_logistic.py: 814: Convergence Warning: \\ | conver
lbfgs failed to converge (status=2): ABNORMAL_TERMINATION_IN_LNSRCH.
Increase the number of iterations (max_iter) or scale the data as shown in:
              https://scikit-learn.org/stable/modules/preprocessing.html
Please also refer to the documentation for alternative solver options:
            https://scikit-learn.org/stable/modules/linear_model.html#logistic-regression
n_iter_i = _check_optimize_result(
Logistic Regression Accuracy: 0.9961671345281796
Logistic Regression Classification Report:
                                                     precision
                                                                                                   recall f1-score
                                                                                                                                                                          support
                                                                                                        1.00
                                       0
                                                                    1.00
                                                                                                                                            1.00
                                                                                                                                                                          110718
                                                                    0.00
                                                                                                        0.00
                                                                                                                                             0.00
                                                                                                                                                                                    426
                                                                                                                                             1.00
                                                                                                                                                                          111144
              accuracy
          macro avg
                                                                                                        0.50
                                                                                                                                             0.50
                                                                                                                                                                          111144
                                                                    0.50
weighted avg
                                                                    0.99
                                                                                                        1.00
                                                                                                                                             0.99
                                                                                                                                                                          111144
                                                                                                                                                                   IPython Console History
```

Console 1/A X _warn_prf(ave Decision Tree A	erage, modif	ier, msg_:	start, len		T CHTS O		•	•
Decision Tree (Classificatio	on Report	:					
	precision	recall	f1-score	support				
0	1.00	1.00	1.00	110718				
1	0.61	0.58	0.59	426				
accuracy			1.00	111144				
macro avg	0.80	0.79	0.80	111144				
weighted avg	1.00	1.00	1.00	111144				

Task 4:Spam Detection