In [ ]:

In [4]:
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import pandas as pd
import numpy as np
from sklearn.model_selection import train_test_split
from sklearn.preprocessing import StandardScaler
from sklearn.linear_model import LogisticRegression
from sklearn.metrics import classification_report, confusion_matrix

# Load the dataset
df = pd.read_csv('creditcard[1].csv')

# Split dataset into features and labels
X = df.drop('Class', axis=1)
y = df['Class']

# Split the dataset into training and testing sets
X_train, X_test, y_train, y_test = train_test_split(X, y, test_size=0.2, random_state=42)

# Standardize features
scaler = StandardScaler()
X_train = scaler.fit_transform(X_train)
X_test = scaler.transform(X_test)

# Create a logistic regression classifier
cl = LogisticRegression()

# Train the classifier
cl.fit(X_train, y_train)

# Make predictions on the test set
y_pred = cl.predict(X_test)

# Print classification report and confusion matrix
print("Classification Report:\n", classification_report(y_test, y_pred))
print("Confusion Matrix:\n", confusion_matrix(y_test, y_pred))
```

```
Classification Report:
               precision    recall  f1-score   support

           0       1.00      1.00      1.00     56864
           1       0.86      0.58      0.70        98

    accuracy                           1.00     56962
   macro avg       0.93      0.79      0.85     56962
weighted avg       1.00      1.00      1.00     56962

Confusion Matrix:
 [[56855     9]
 [   41    57]]
```

In [ ]: