

Haz doble clic (o pulsa Intro) para editar

```
from google.colab import drive
drive.mount('/content/drive')
```

Drive already mounted at /content/drive; to attempt to forcibly remount, call drive.mount("/content/drive", force_remount=True).

```
import pandas as pd
```

```
df = pd.read_parquet('/content/drive/MyDrive/DS4A_dataset/credit_card_data_da.parquet', engine='pyarrow')
```

```
df.info()
```

```

7  Use Chip                                object
8  Merchant Name                          int64
9  Merchant City                          object
10 Merchant State                         object
11 Zip                                    float64
12 MCC                                    int64
13 Errors?                               object
14 Is Fraud?                             object
15 hour                                   object
16 minute                                object
17 date                                  datetime64[ns]
18 datetime                              datetime64[ns]
19 time_of_day                           object
20 target                                int64
21 charge_off                            float64
22 merchant_city_rome                    bool
23 Person                                object
24 Current Age                           int64
25 Retirement Age                        int64
26 Birth Year                             int64
27 Birth Month                           int64
28 Gender                                object
29 Address                               object
30 Apartment                             float64
31 City                                  object
32 State                                 object
33 Zipcode                               int64
34 Latitude                              float64
35 Longitude                             float64
36 Per Capita Income - Zipcode            float64
37 Yearly Income - Person                 float64
38 Total Debt                             float64
39 FICO Score                             int64
40 Num Credit Cards                       int64
41 personal_to_zipcode_income_diff        float64
42 total_debt_personal_income_ratio        float64
43 total_debt_cards_ratio                 float64
44 CARD INDEX                             int64
45 Card Brand                             object
46 Card Type                             object
47 Card Number                           int64
48 Expires                               object
49 CVV                                    int64
50 Has Chip                               object
51 Cards Issued                           int64
52 Credit Limit                           float64
53 Acct Open Date                         object
54 Year PIN last Changed                   int64
55 Card on Dark Web                       object
56 level_2                                int64
57 rolling_charge_off                     float64
58 rolling_fraud_count                    float64
59 rolling_tran_count                     float64
60 rolling_tran_volume                    float64
61 transaction_count                      float64
62 years_since_pin_change                  int64
dtypes: bool(1), datetime64[ns](2), float64(18), int64(22), object(20)
memory usage: 3.2+ GB
```

```
df['Is Fraud?'].value_counts()
```

```

No      6869425
Yes       8412
Name: Is Fraud?, dtype: int64
```

```
df.isnull().sum()
```

```
User          0
Card          0
Year          0
Month         0
Day           0
...
rolling_fraud_count    8469
rolling_tran_count     8469
rolling_tran_volume    8469
transaction_count      8469
years_since_pin_change    0
Length: 63, dtype: int64
```

```
# Extract the hour and minute to perform a more refined time series analysis
```

```
df["Hour"] = df["Time"].str [0:2]
```

```
df["Minute"] = df["Time"].str [3:5]
```

```
df = df.drop(['Time'],axis=1)
```

```
# change the is fraud column to binary
```

```
df["Is Fraud?"] = df["Is Fraud?"].apply(lambda x: 1 if x == 'Yes' else 0)
```

```
fraud_data = df[df['Is Fraud?'] == 1]
```

```
# Export DataFrame to CSV and save it in Google Drive
```

```
fraud_data.to_csv('/content/drive/My Drive/Fraud_yes.csv', index=False)
```

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