colab.research.google.com/drive/1DPyzuy-aPBq_ahO4NXVdSAreuZakgJci

phase 2.ipynb

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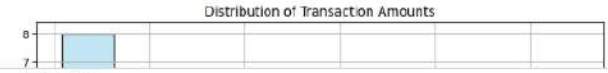
```
# ------------------------------
# 6. Save Preprocessed Data (Optional)
# ------------------------------
df.to_csv("preprocessed_credit_card_data.csv", index=False)
print("✅ Preprocessed data saved to 'preprocessed_credit_card_data.csv'")
```

```
First 5 Rows:
  Transaction_ID  Amount  Time  Is_Fraud
0          T0001  105.50   120         0
1          T0002  220.10  2400         0
2          T0003   15.75   360         0
3          T0004  500.00  7200         1
4          T0005   60.40   180         0

Dataset Info:
<class 'pandas.core.frame.DataFrame'>
RangeIndex: 15 entries, 0 to 14
Data columns (total 4 columns):
 #   Column          Non-Null Count  Dtype
---  ------          --------------  -----
 0   Transaction_ID  15 non-null     object
 1   Amount          15 non-null     float64
 2   Time            15 non-null     int64
 3   Is_Fraud        15 non-null     int64
dtypes: float64(1), int64(2), object(1)
memory usage: 612.0+ bytes
None

Summary Statistics:
             Amount          Time   Is_Fraud
count    15.000000     15.000000  15.000000
mean    382.363333   3708.400000   0.333333
std     353.713805   4157.266578   0.487950
min      15.750000    120.000000   0.000000
25%      40.950000    445.000000   0.000000
50%     105.500000   1111.000000   0.000000
75%     452.550000   6700.000000   1.000000
max    1180.000000  13000.000000   1.000000
```



Variables Terminal

Inbox (1,5 | phase 2.ip | Mokshan | Untitled0 | phase 2.ip | Welcome | Inbox (1,5 | Ebpl-DS-(| Credit Ca

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phase 2.ipynb ☆ Changes will not be saved

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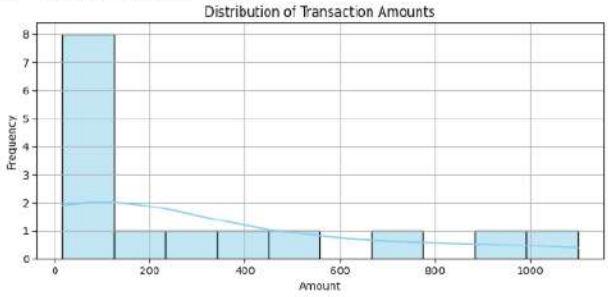

Variables | Terminal

Inbox (1,5 | phase 2.ip | Mokshan | Untitled0 | phase 2.ip | Welcome | Inbox (1,5 | Ebpl-DS-(| Credit Ca

colab.research.google.com/drive/1DPyzuy-aPBq_ahO4NXVdSAreuZakgJci

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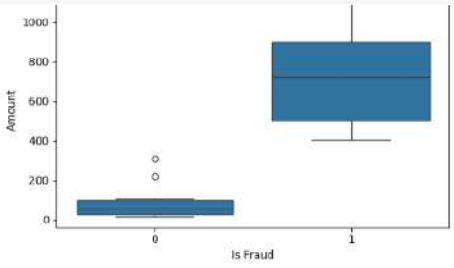
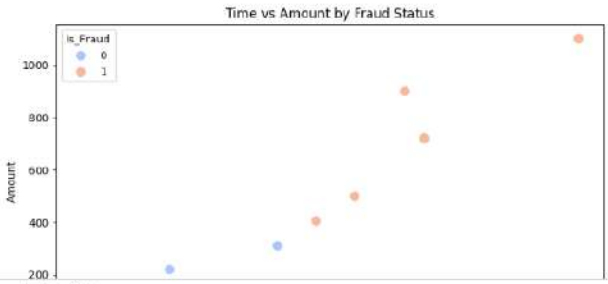
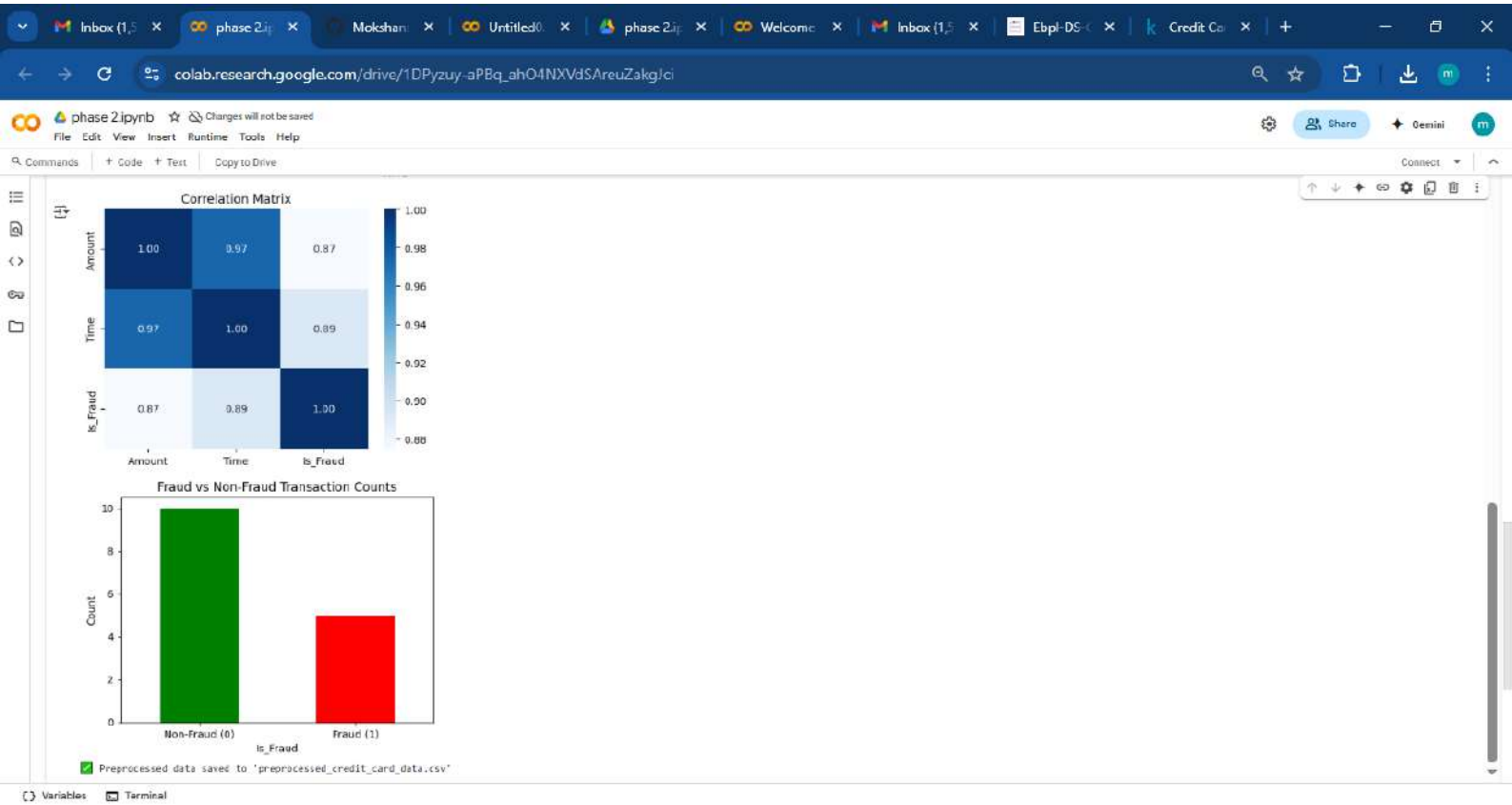




Variables | Terminal


Correlation Matrix
Amount
Time
Is_Fraud
1.00
0.97
0.87
0.97
1.00
0.89
0.87
0.89
1.00
1.00
0.98
0.96
0.94
0.92
0.90
0.88
Fraud vs Non-Fraud Transaction Counts
Count
Non-Fraud (0)
Fraud (1)
Is_Fraud
Preprocessed data saved to 'preprocessed_credit_card_data.csv'