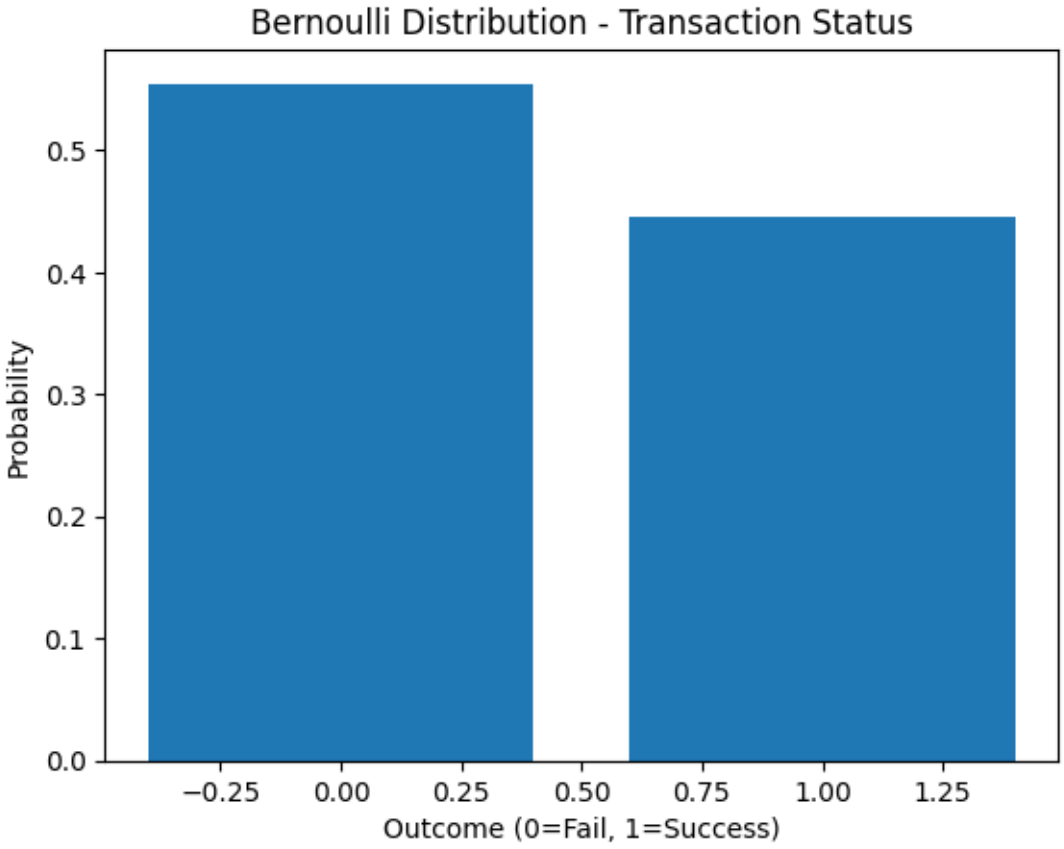
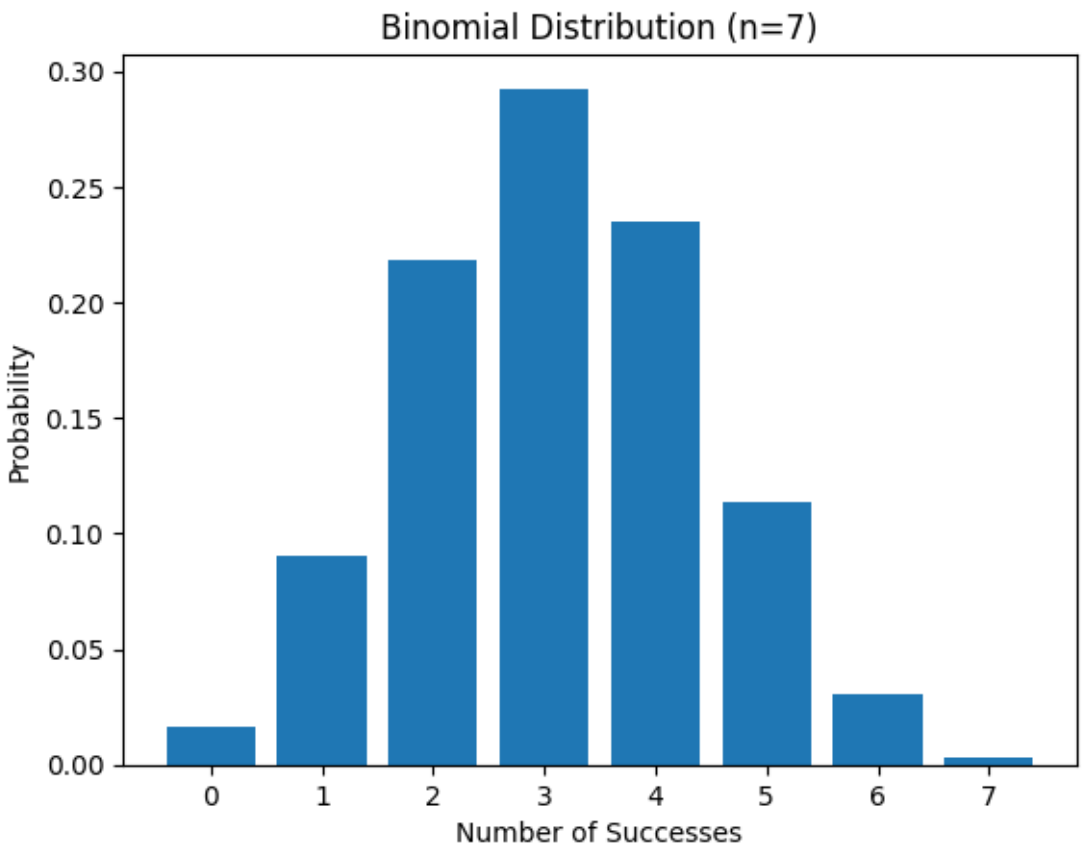
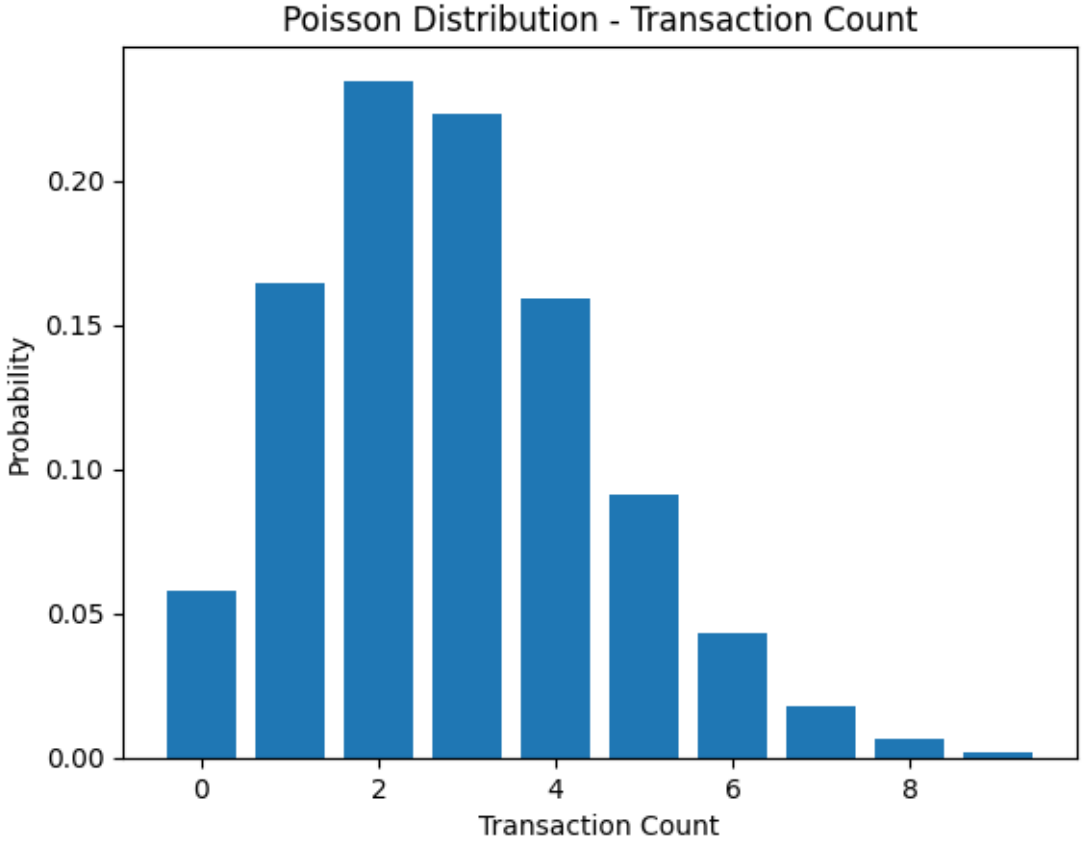
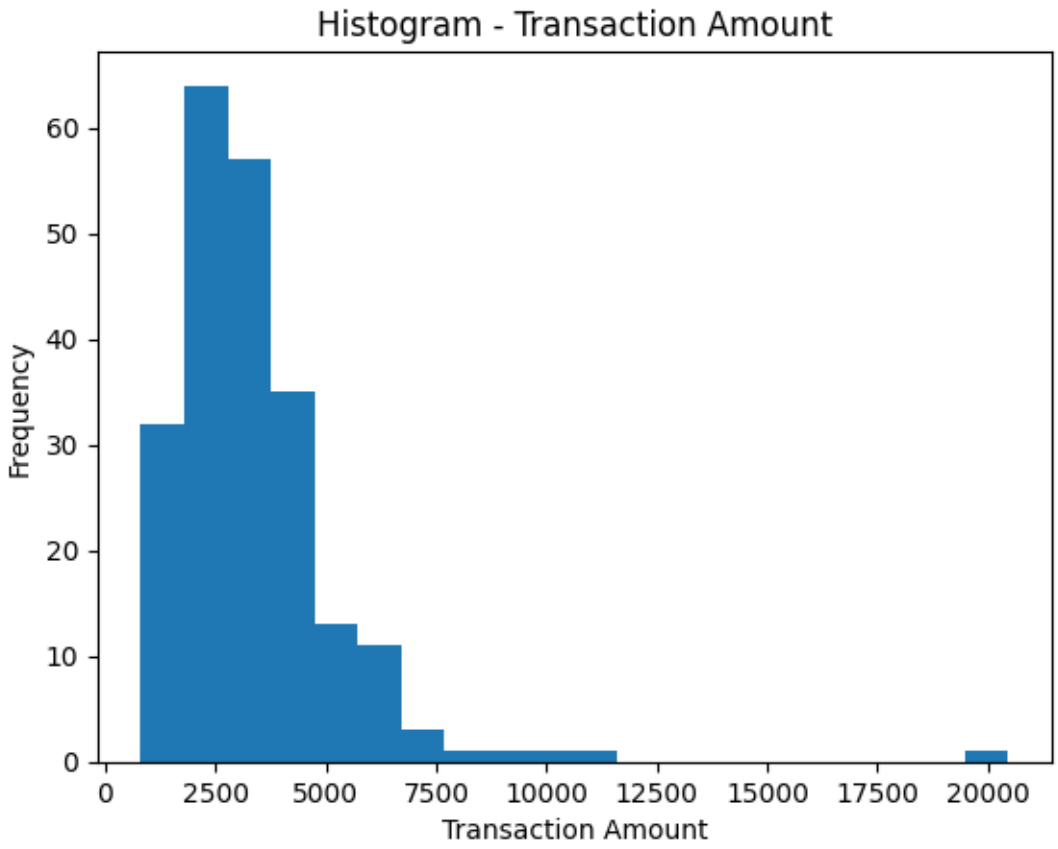
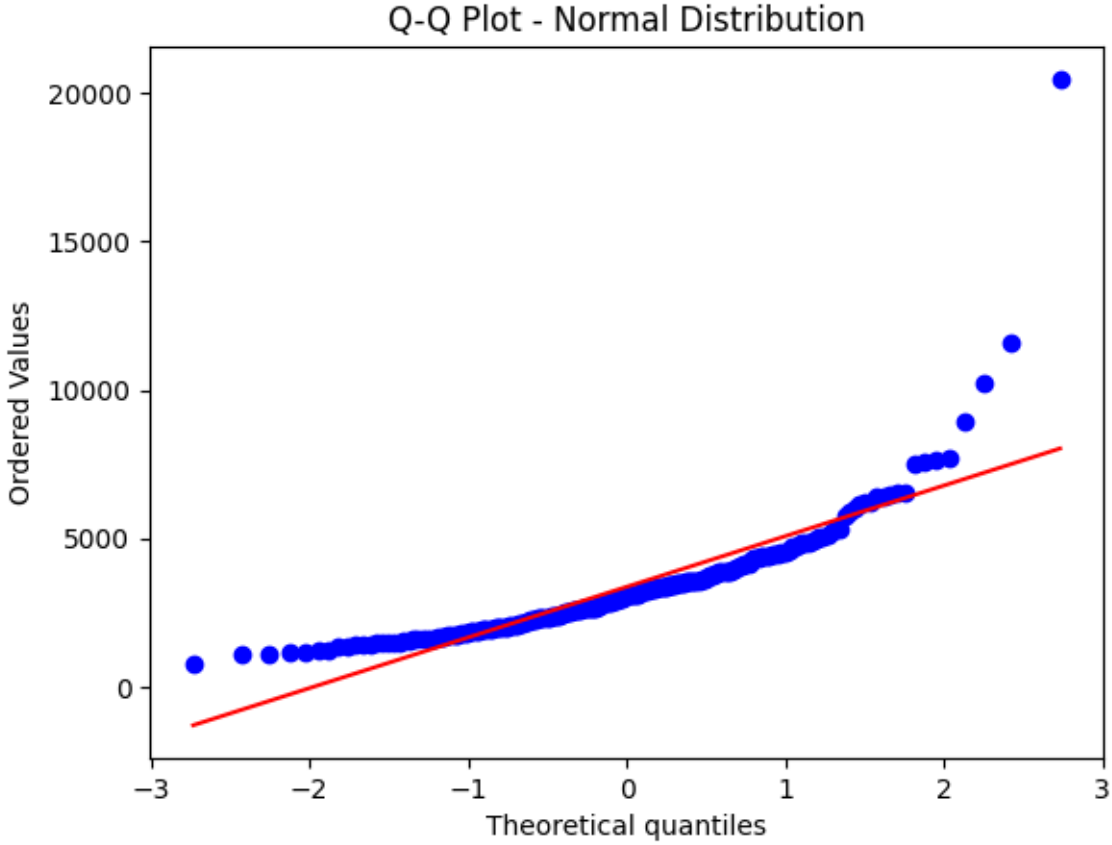
Visuals

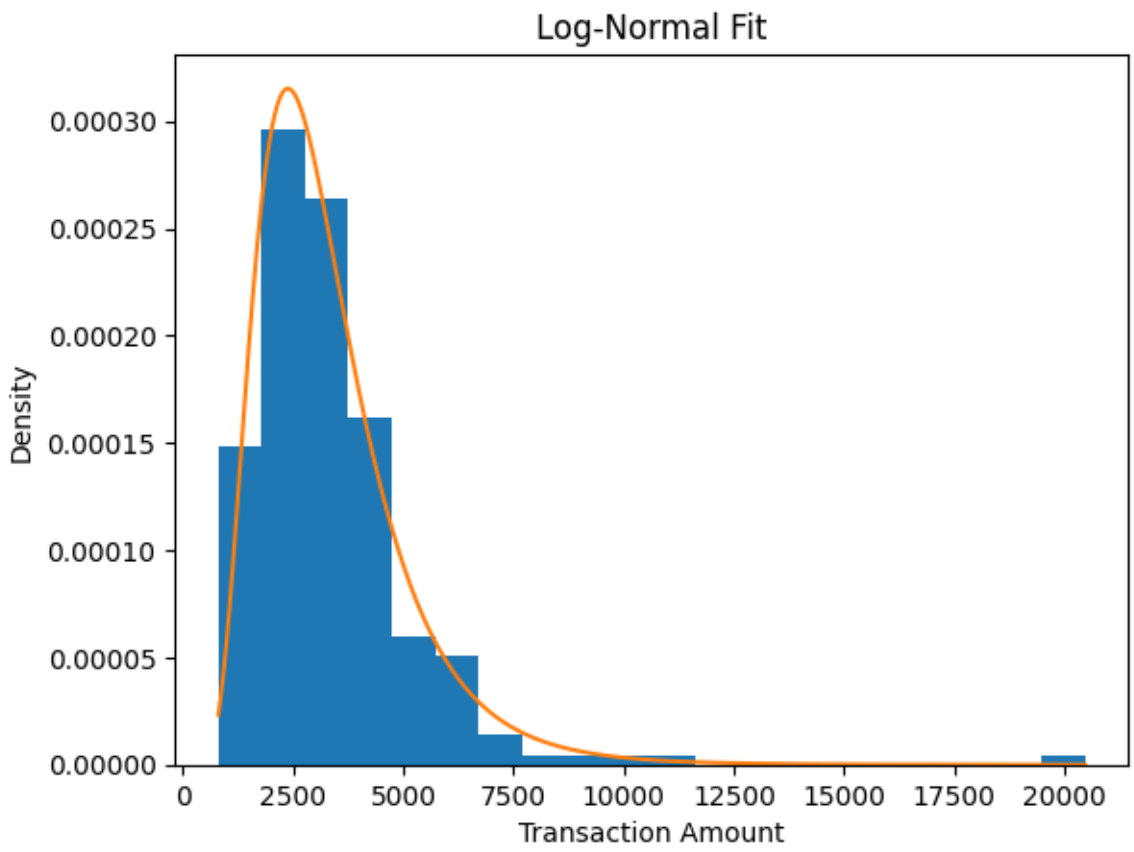

Bernoulli Distribution - Transaction Status
Probability
0.0
0.1
0.2
0.3
0.4
0.5
−0.25
0.00
0.25
0.50
0.75
1.00
1.25
Outcome (0=Fail, 1=Success)

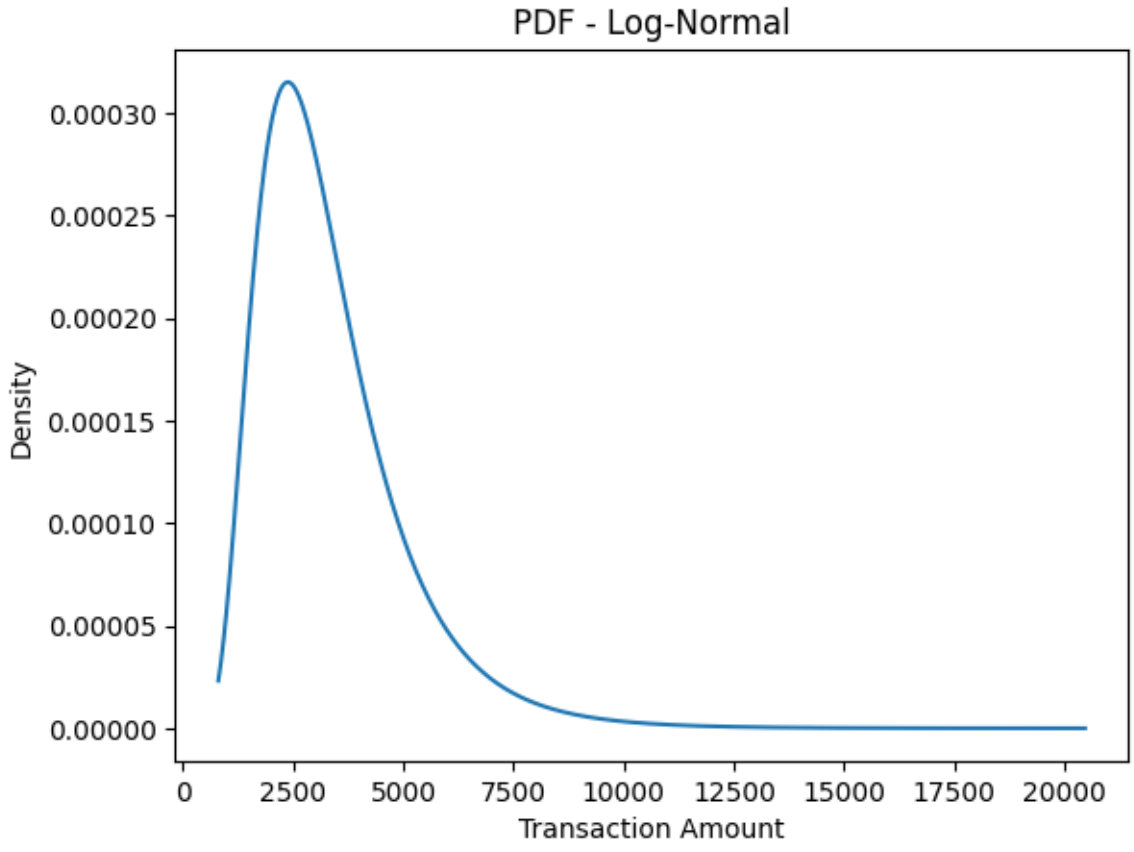

Binomial Distribution (n=7)
Probability
0.30
0.25
0.20
0.15
0.10
0.05
0.00
0
1
2
3
4
5
6
7
Number of Successes

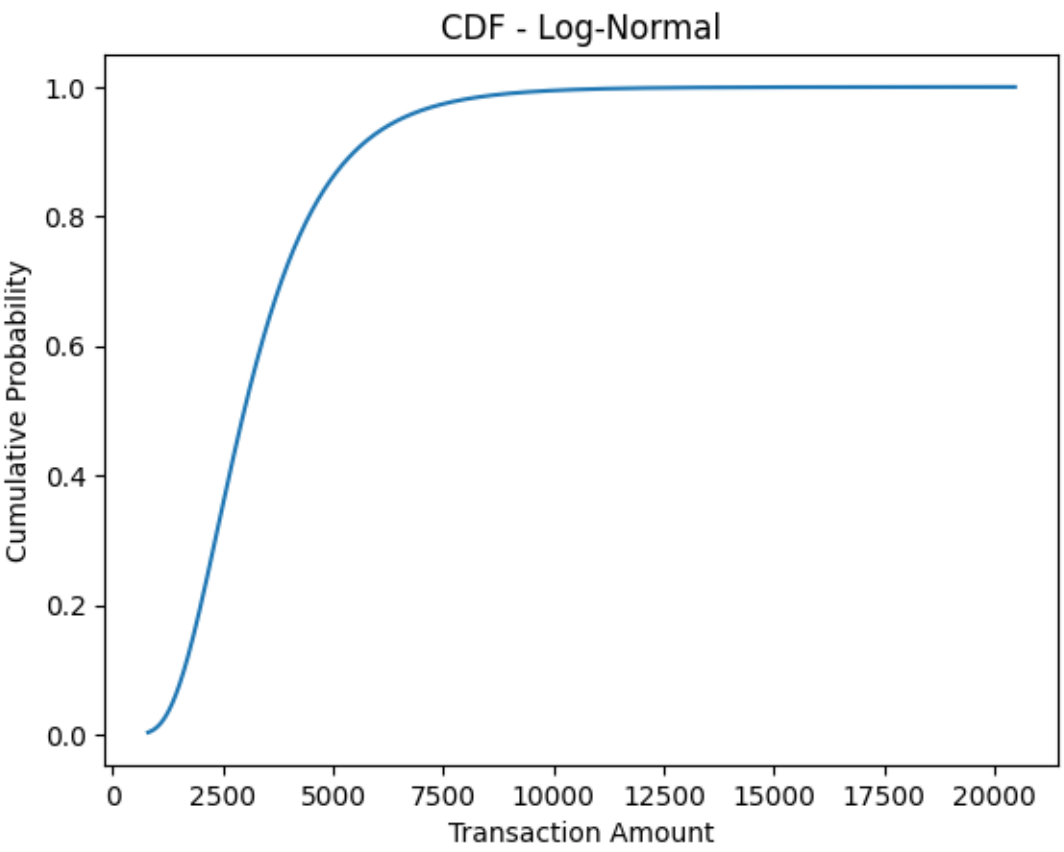

Poisson Distribution - Transaction Count
Probability
0.20
0.15
0.10
0.05
0.00
0
2
4
6
8
Transaction Count

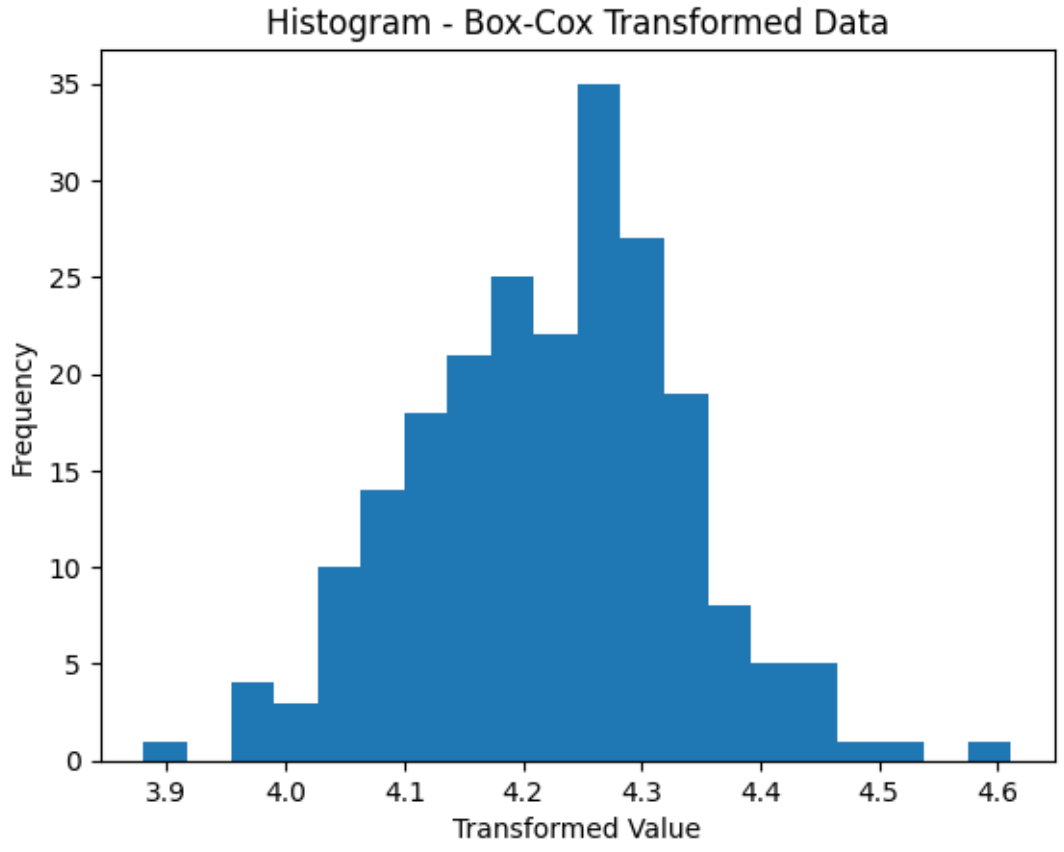

Histogram - Transaction Amount
Frequency
Transaction Amount
0
10
20
30
40
50
60
0
2500
5000
7500
10000
12500
15000
17500
20000

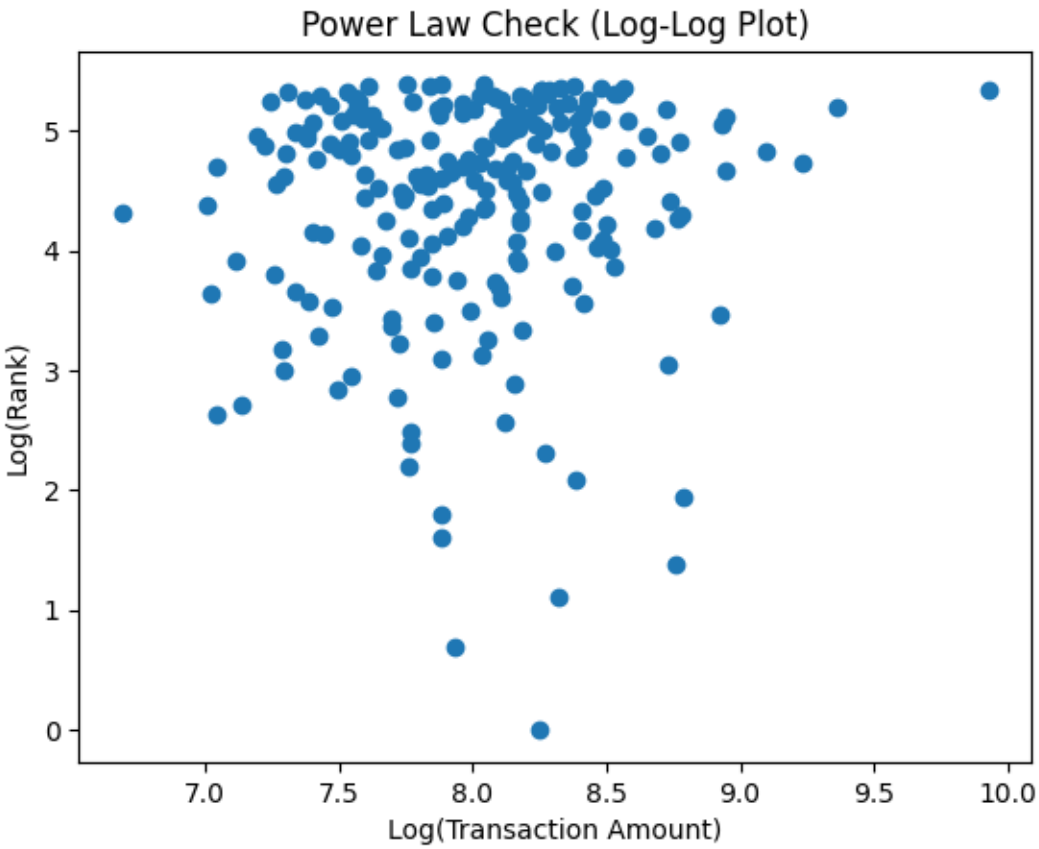

Q-Q Plot - Normal Distribution
Ordered Values
Theoretical quantiles
0
5000
10000
15000
20000
−3
−2
−1
0
1
2
3


Log-Normal Fit
Density
0.00030
0.00025
0.00020
0.00015
0.00010
0.00005
0.00000
0
2500
5000
7500
10000
12500
15000
17500
20000
Transaction Amount


PDF - Log-Normal
Density
0.00030
0.00025
0.00020
0.00015
0.00010
0.00005
0.00000
0
2500
5000
7500
10000
12500
15000
17500
20000
Transaction Amount


CDF - Log-Normal
Cumulative Probability
1.0
0.8
0.6
0.4
0.2
0.0
0
2500
5000
7500
10000
12500
15000
17500
20000
Transaction Amount


Histogram - Box-Cox Transformed Data
Frequency
35
30
25
20
15
10
5
0
3.9
4.0
4.1
4.2
4.3
4.4
4.5
4.6
Transformed Value


Power Law Check (Log-Log Plot)
Log(Rank)
Log(Transaction Amount)
0
1
2
3
4
5
7.0
7.5
8.0
8.5
9.0
9.5
10.0