Report
of
Daily_Transactions
Project
(Finance Analyst)

Overview

Brought to you by YData

Overview | Alerts 2 | Reproduction

Dataset statistics

Number of variables	8
Number of observations	1563
Missing cells	0
Missing cells (%)	0.0%
Duplicate rows	0
Duplicate rows (%)	0.0%
Total size in memory	771.9 KiB
Average record size in memory	505.7 B

Variable types

DateTime	1
Categorical	4
Text	2
Numeric	1

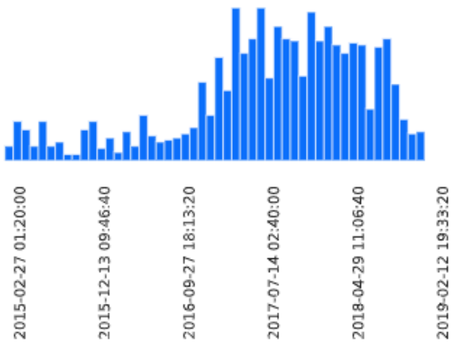
Variables

Date

Date

Date

Distinct	1167	**Minimum**	2015-01-03 00:00:00
Distinct (%)	74.7%	**Maximum**	2018-12-09 00:00:00
Missing	0	**Invalid dates**	0
Missing (%)	0.0%	**Invalid dates (%)**	0.0%
Memory size	56.7 KiB		

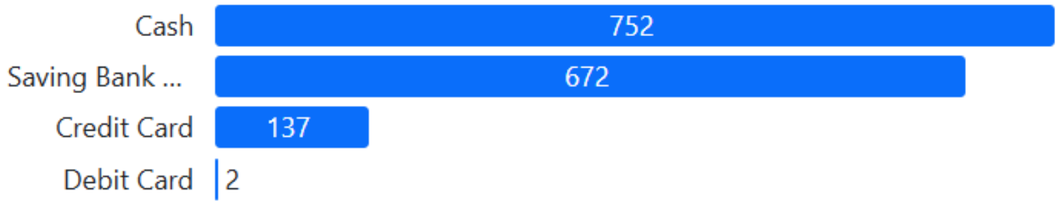


More details

Mode

Categorical

Distinct	4
Distinct (%)	0.3%
Missing	0
Missing (%)	0.0%
Memory size	149.7 KiB

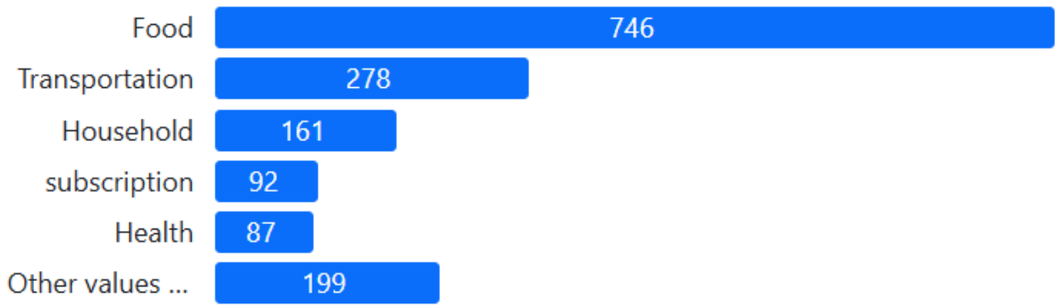


More details

Category

Categorical

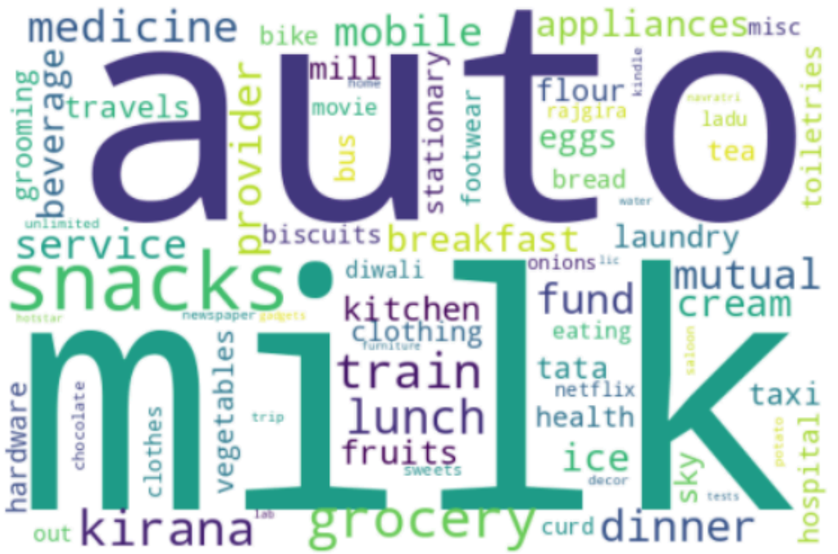
Distinct	16
Distinct (%)	1.0%
Missing	0
Missing (%)	0.0%
Memory size	142.8 KiB



Subcategory

Text

Distinct	87
Distinct (%)	5.6%
Missing	0
Missing (%)	0.0%
Memory size	142.1 KiB



More details

More details

Note

Text

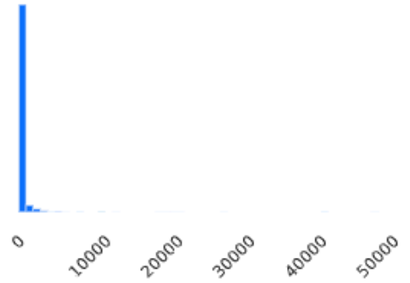
Distinct	857
Distinct (%)	54.8%
Missing	0
Missing (%)	0.0%
Memory size	159.9 KiB

More details

Amount

Real number (ℝ)

Distinct	385	**Minimum**	2
Distinct (%)	24.6%	**Maximum**	50000
Missing	0	**Zeros**	0
Missing (%)	0.0%	**Zeros (%)**	0.0%
Infinite	0	**Negative**	0
Infinite (%)	0.0%	**Negative (%)**	0.0%
Mean	474.37052	**Memory size**	56.7 KiB



More details

Income/Expense

Categorical

Constant

Distinct	1
Distinct (%)	0.1%
Missing	0
Missing (%)	0.0%
Memory size	142.2 KiB

Currency

Categorical

Constant

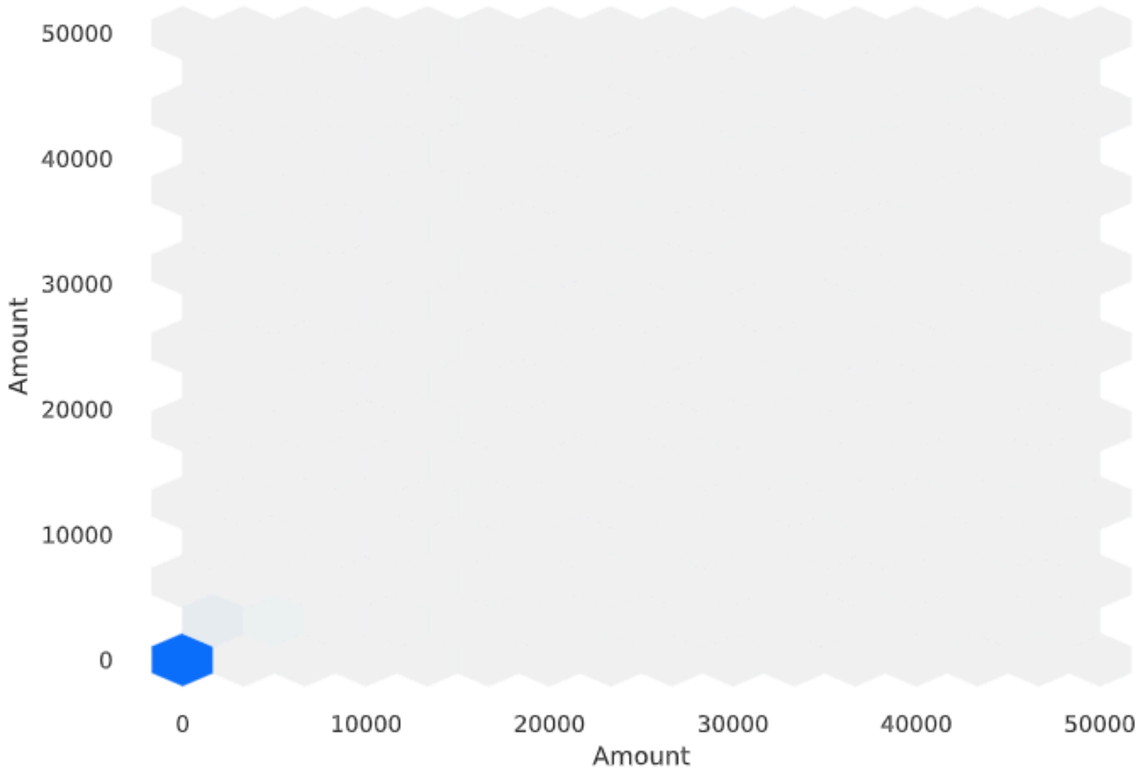
Distinct	1
Distinct (%)	0.1%
Missing	0
Missing (%)	0.0%
Memory size	136.1 KiB

More details

Interactions

Amount

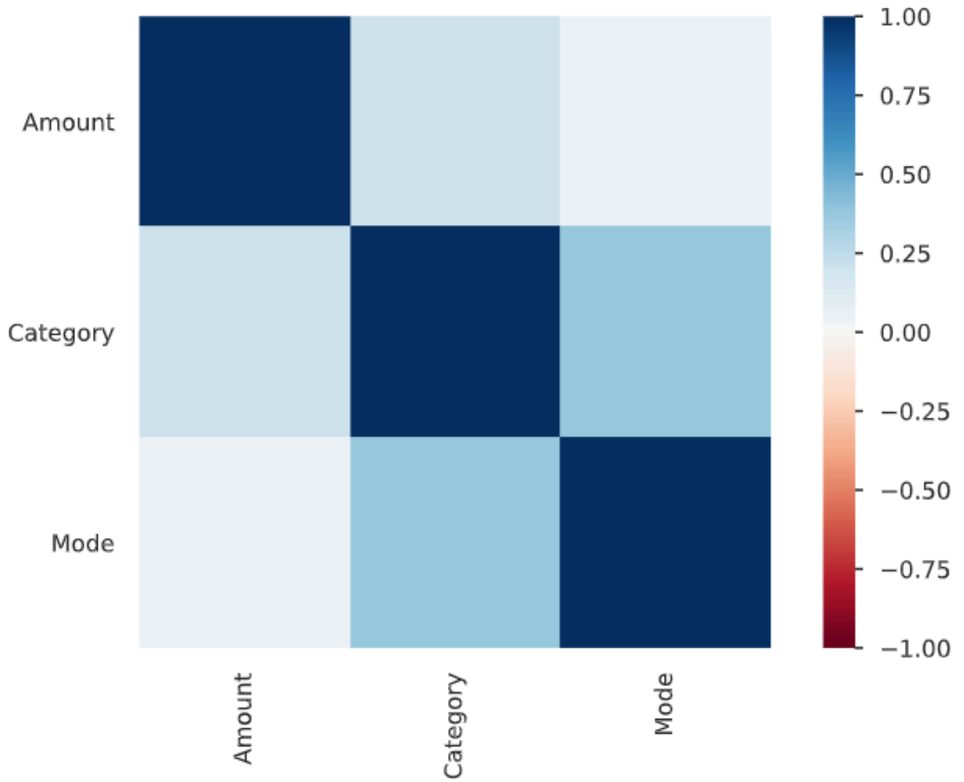
Amount



Correlations

Auto

Heatmap | Table



Correlations

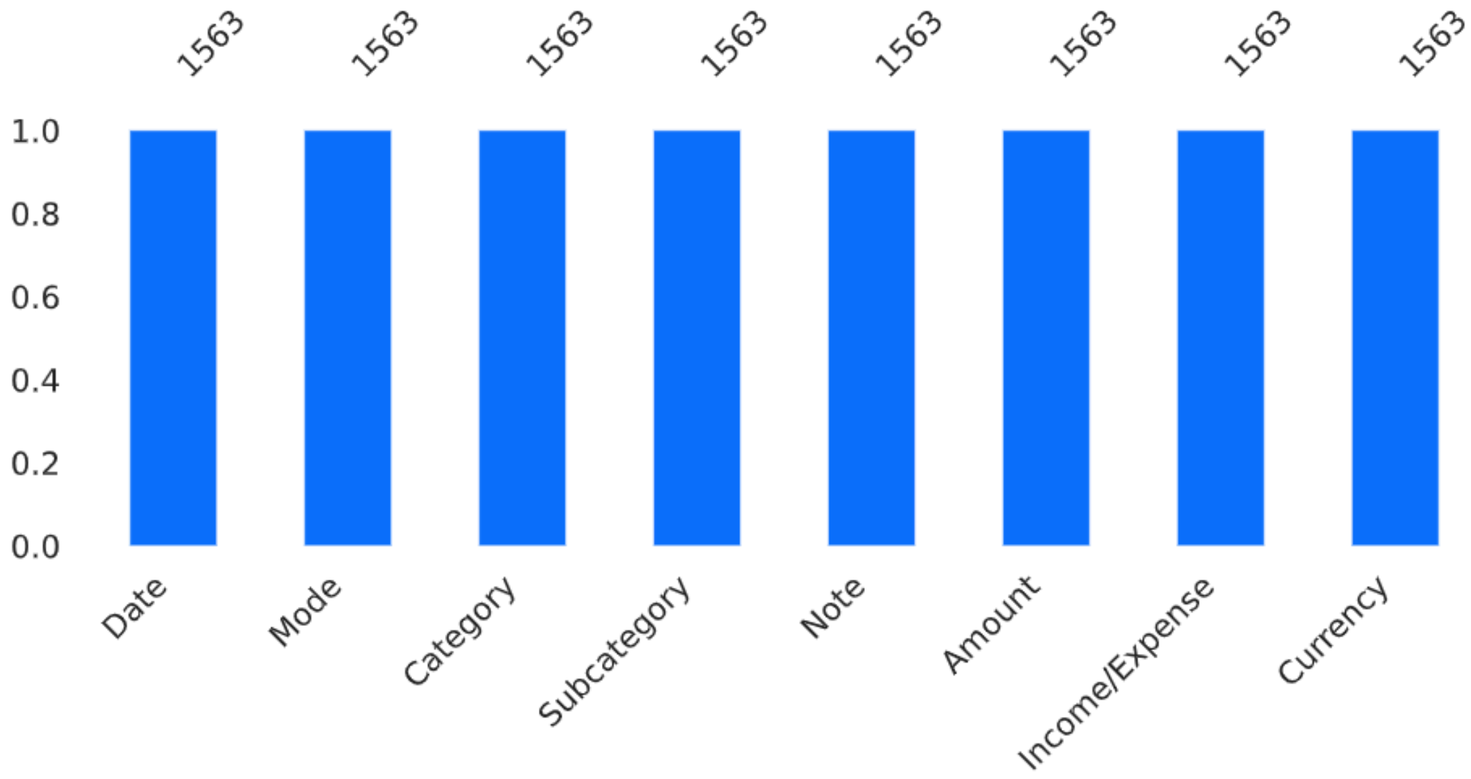
Auto

Heatmap | Table

	Amount	Category	Mode
Amount	1.000	0.209	0.048
Category	0.209	1.000	0.374
Mode	0.048	0.374	1.000

Missing values

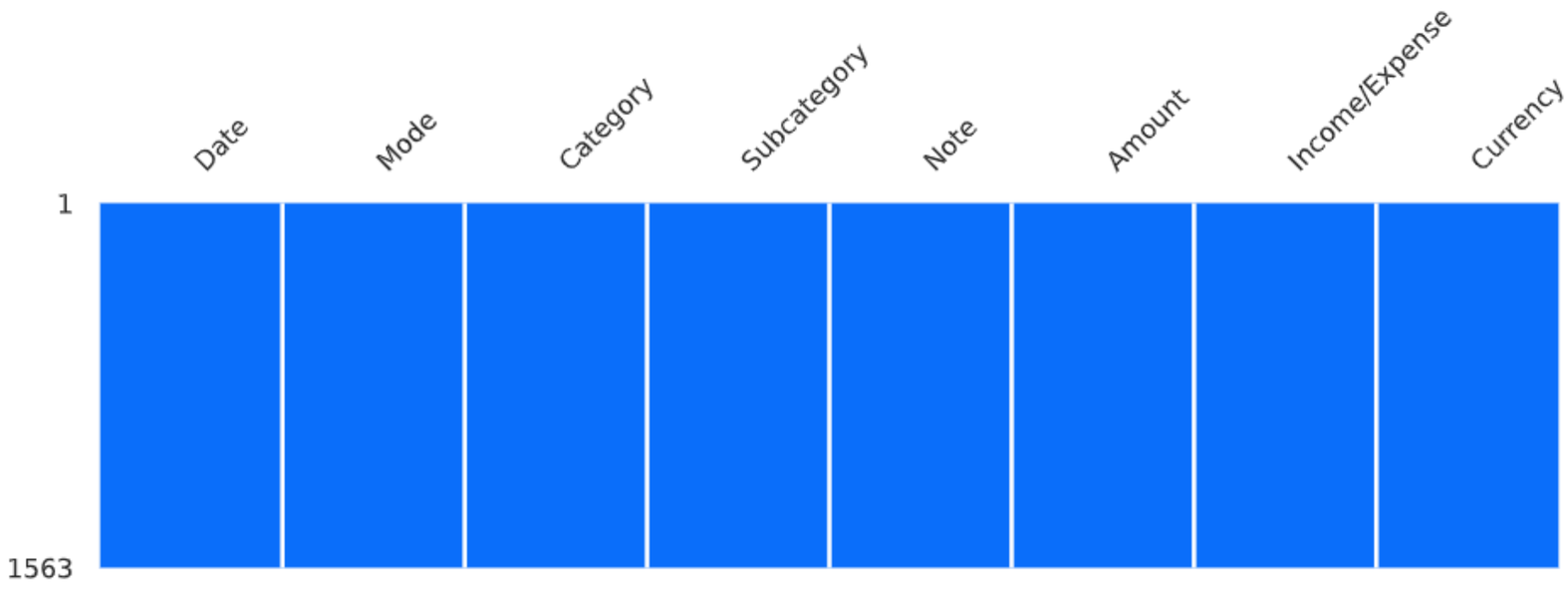
Count | Matrix



A simple visualization of nullity by column.

Missing values

Count | Matrix



Nullity matrix is a data-dense display which lets you quickly visually pick out patterns in data completion.

Sample

First rows | Last rows

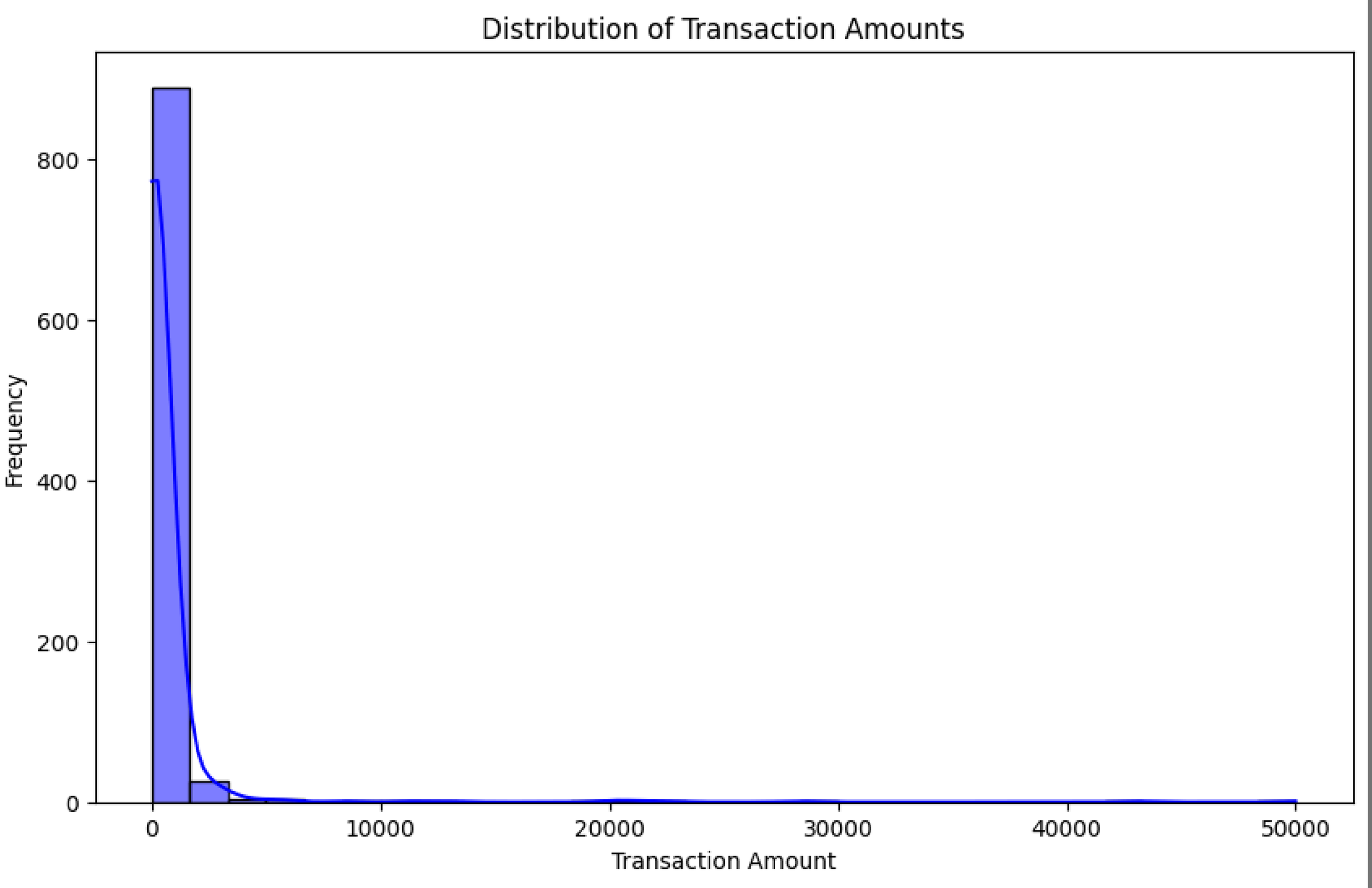
	Date	Mode	Category	Subcategory	Note	Amount	Income/Expense	Currency
0	20/09/2018 12:04:08	Cash	Transportation	Train	2 Place 5 to Place 0	30.0	Expense	INR
1	20/09/2018 12:03:15	Cash	Food	snacks	Idli medu Vada mix 2 plates	60.0	Expense	INR
2	19/09/2018	Saving Bank account 1	subscription	Netflix	1 month subscription	199.0	Expense	INR
3	17/09/2018 23:41:17	Saving Bank account 1	subscription	Mobile Service Provider	Data booster pack	19.0	Expense	INR
4	16/09/2018 17:15:08	Cash	Festivals	Ganesh Pujan	Ganesh idol	251.0	Expense	INR
5	15/09/2018 06:34:17	Credit Card	subscription	Tata Sky	Permanent Residence - Tata Play recharge	200.0	Expense	INR
6	14/09/2018 05:39:17	Cash	Transportation	auto	Place 2 station to Permanent Residence	50.0	Expense	INR
7	13/09/2018 21:35:15	Saving Bank account 1	Transportation	Train	2 Place 0 to Place 3	40.0	Expense	INR
9	13/09/2018 21:01:32	Cash	Food	Grocery	1kg atta	46.0	Expense	INR
12	12/9/2018	Credit Card	subscription	Mobile Service Provider	Data booster pack	667.0	Expense	INR

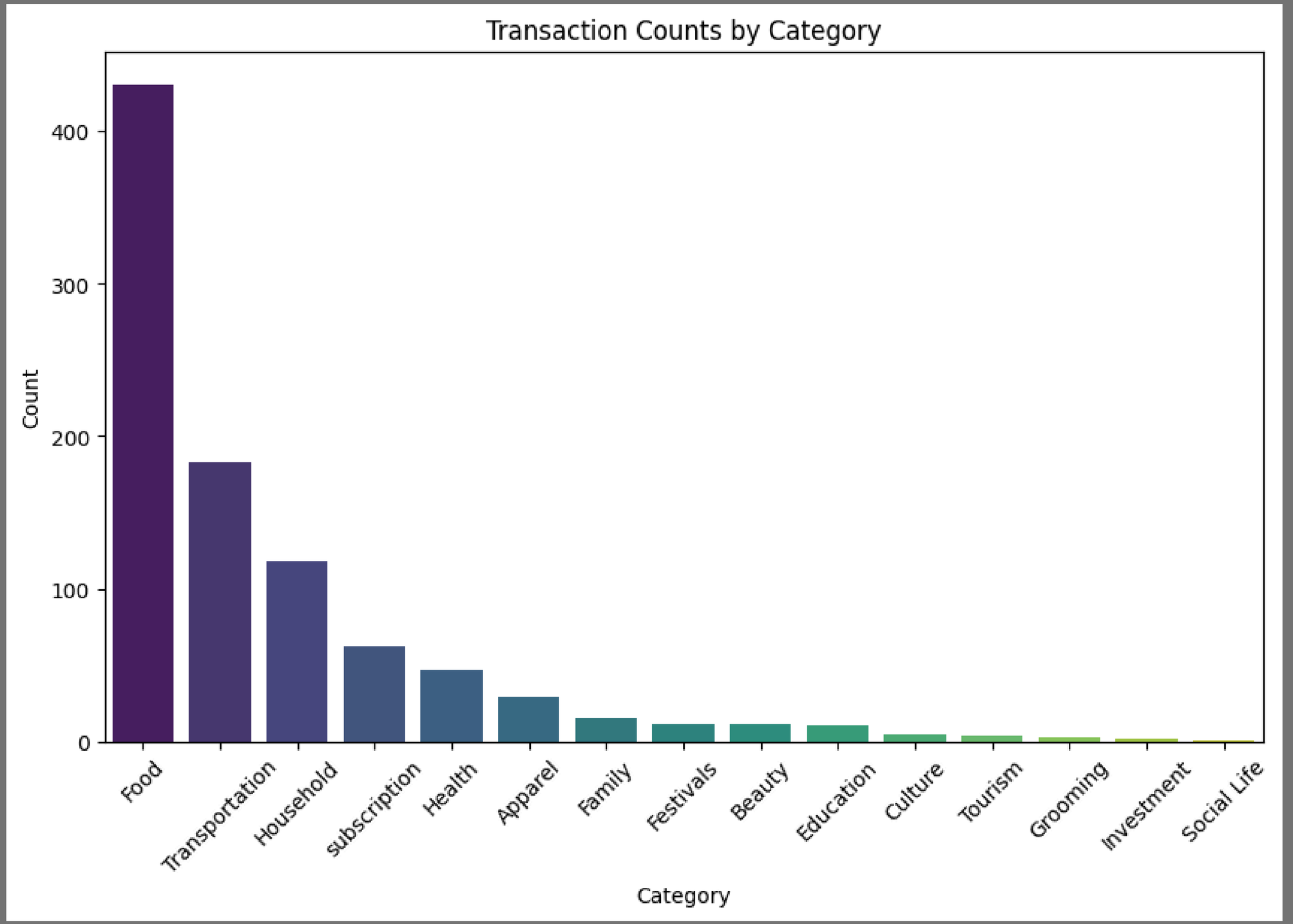
Sample

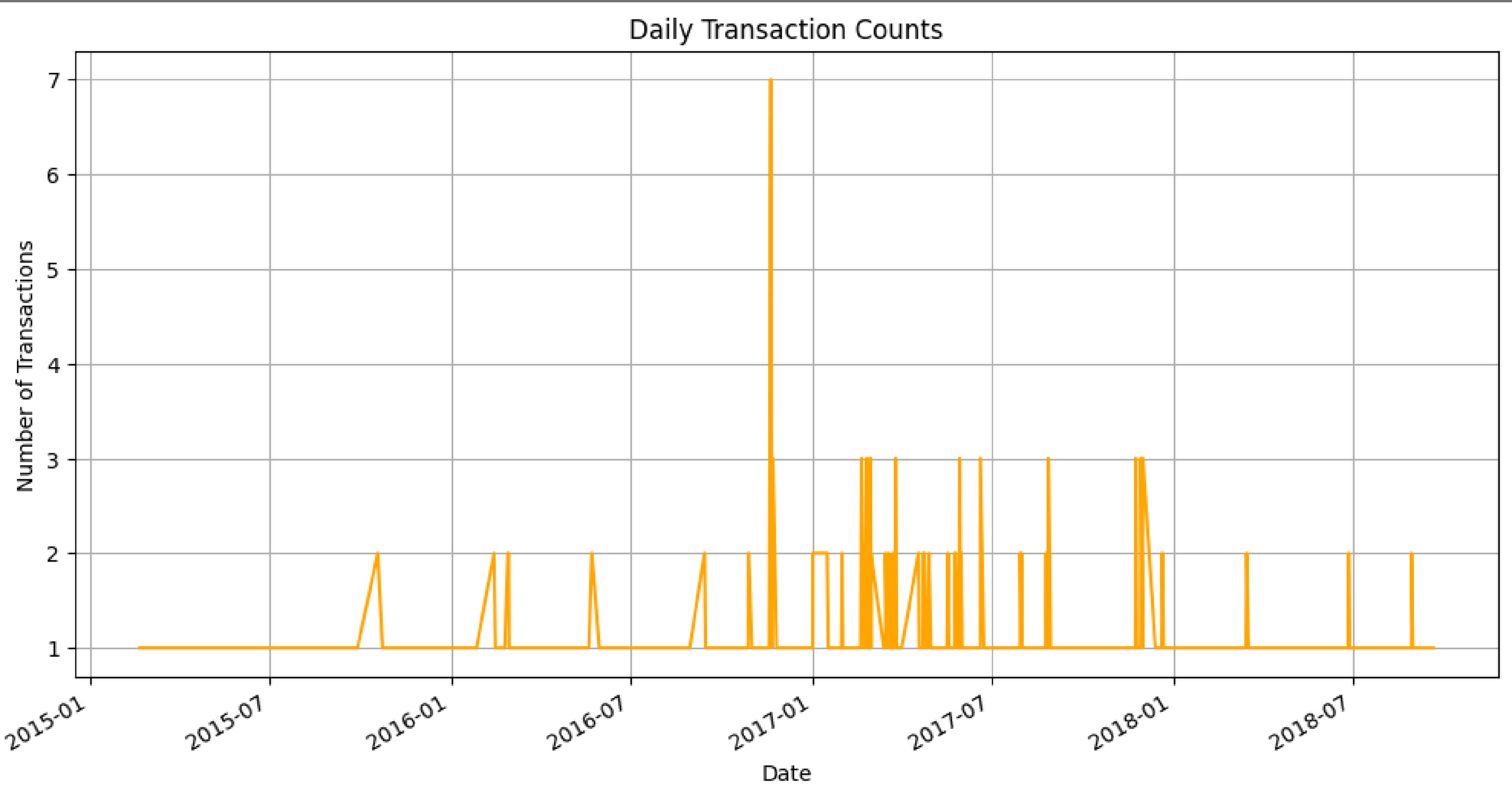
First rows | Last rows

	Date	Mode	Category	Subcategory	Note	Amount	Income/Expense	Currency
2322	26/02/2015 20:06:17	Cash	Transportation	auto	office to vasna road	60.0	Expense	INR
2323	26/02/2015 20:05:39	Cash	Food	Grocery	eggs	30.0	Expense	INR
2325	24/02/2015 22:10:01	Cash	Food	Grocery	vegetable	160.0	Expense	INR
2326	24/02/2015 05:47:03	Cash	Transportation	auto	ola auto - BRC to b45	66.0	Expense	INR
2328	23/02/2015 21:15:40	Cash	Transportation	auto	Bandra to Bandra terminus	20.0	Expense	INR
2329	23/02/2015 19:37:47	Cash	Transportation	Train	Place 0 to Bandra	20.0	Expense	INR
2330	23/02/2015 18:39:59	Cash	Apparel	Footwear	shoe polish	20.0	Expense	INR
2331	23/02/2015 15:43:13	Credit Card	Transportation	train	to and fro Mum to BRC	526.0	Expense	INR
2333	19/02/2015 20:52:01	Cash	Health	Health	face mask	45.0	Expense	INR
2334	19/02/2015 20:51:37	Cash	Health	Medicine	koflet	34.0	Expense	INR

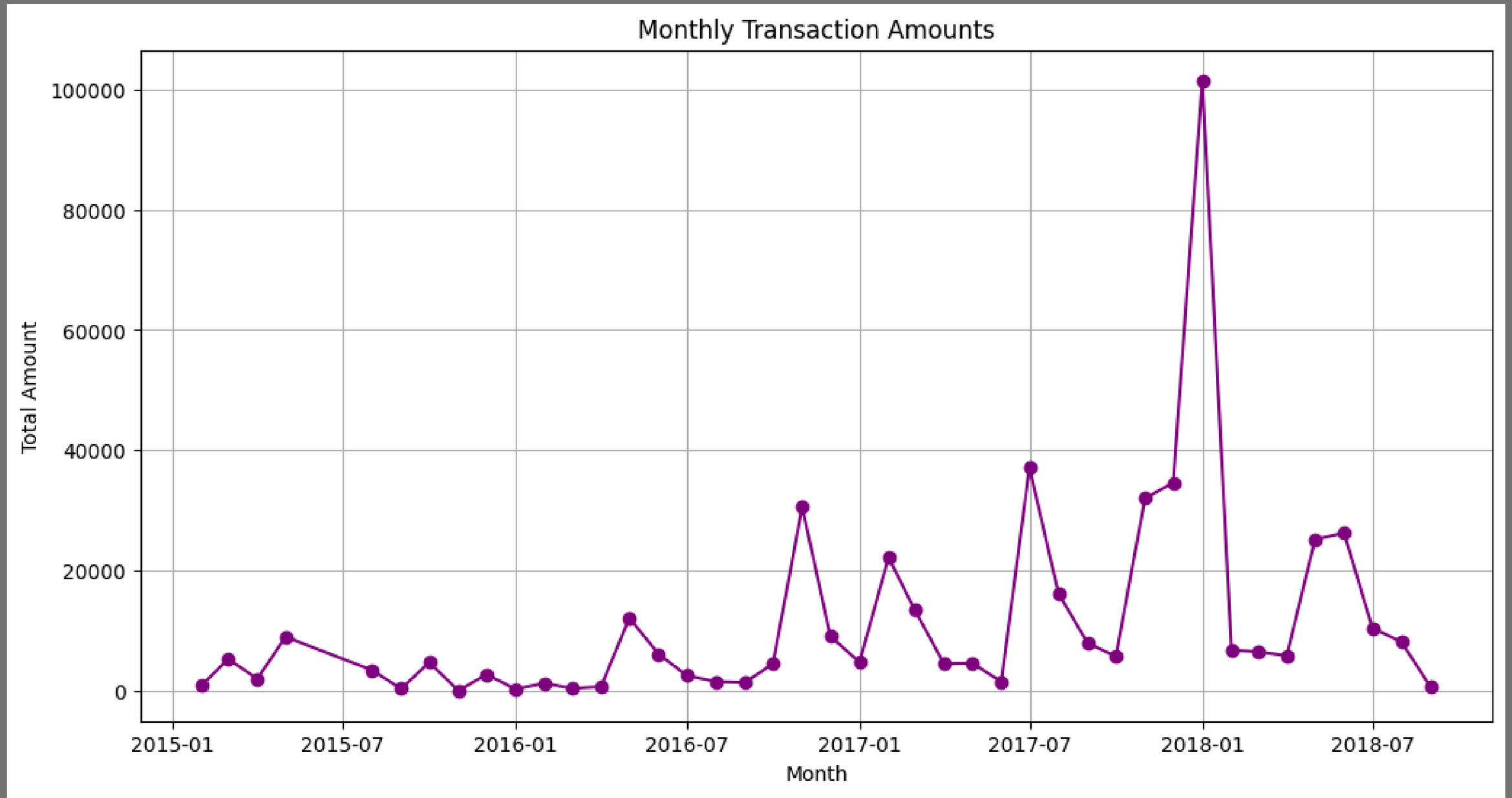
Graphs of Exploratory Data Analysis (EDA) , Time Series Analysis, Correlation Analysis and Predictive Analysis


Distribution of Transaction Amounts
Frequency
800
600
400
200
0
0
10000
20000
30000
40000
50000
Transaction Amount

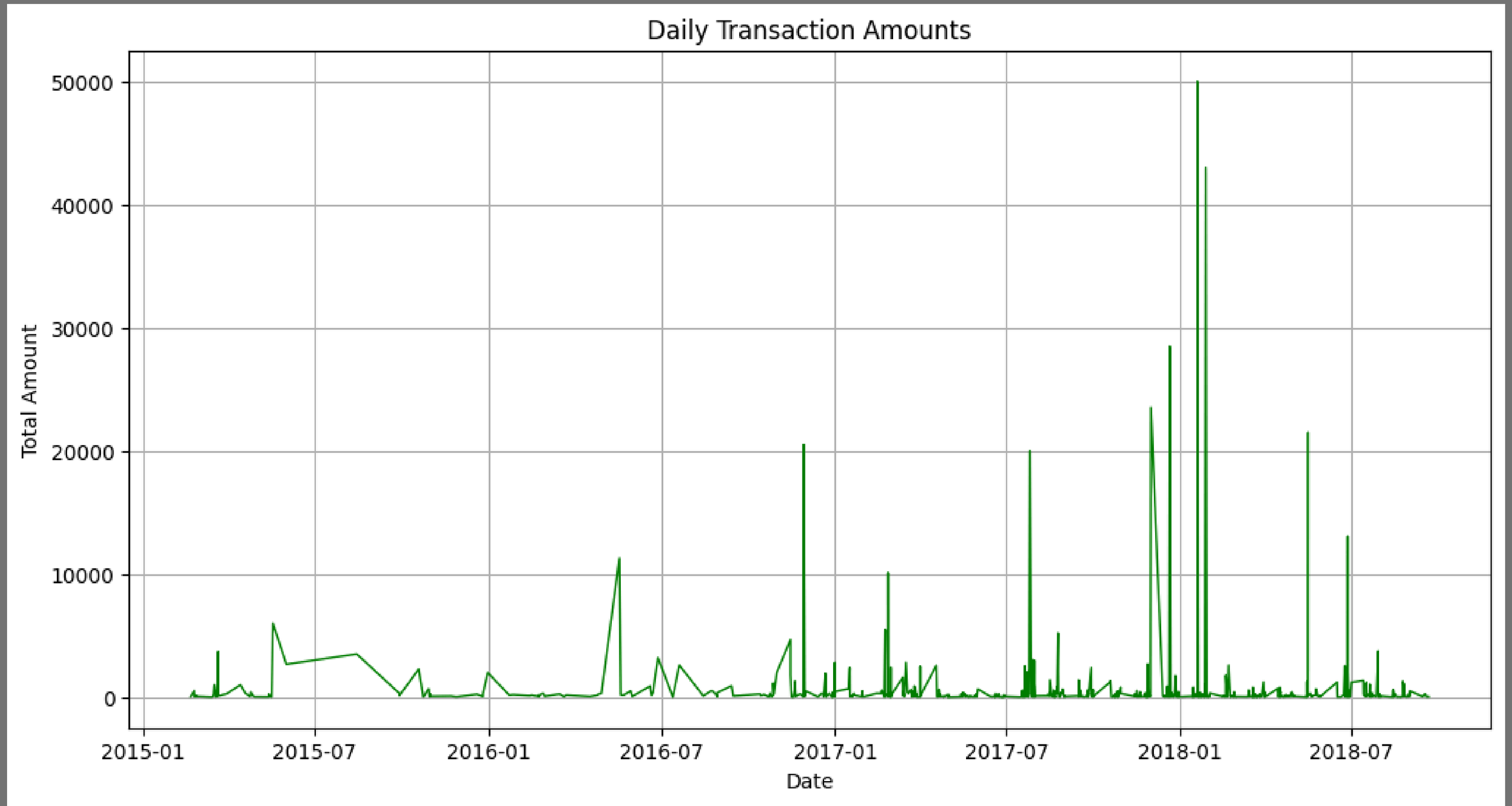

Transaction Counts by Category
Count
0
100
200
300
400
Food
Transportation
Household
subscription
Health
Apparel
Family
Festivals
Beauty
Education
Culture
Tourism
Grooming
Investment
Social Life
Category

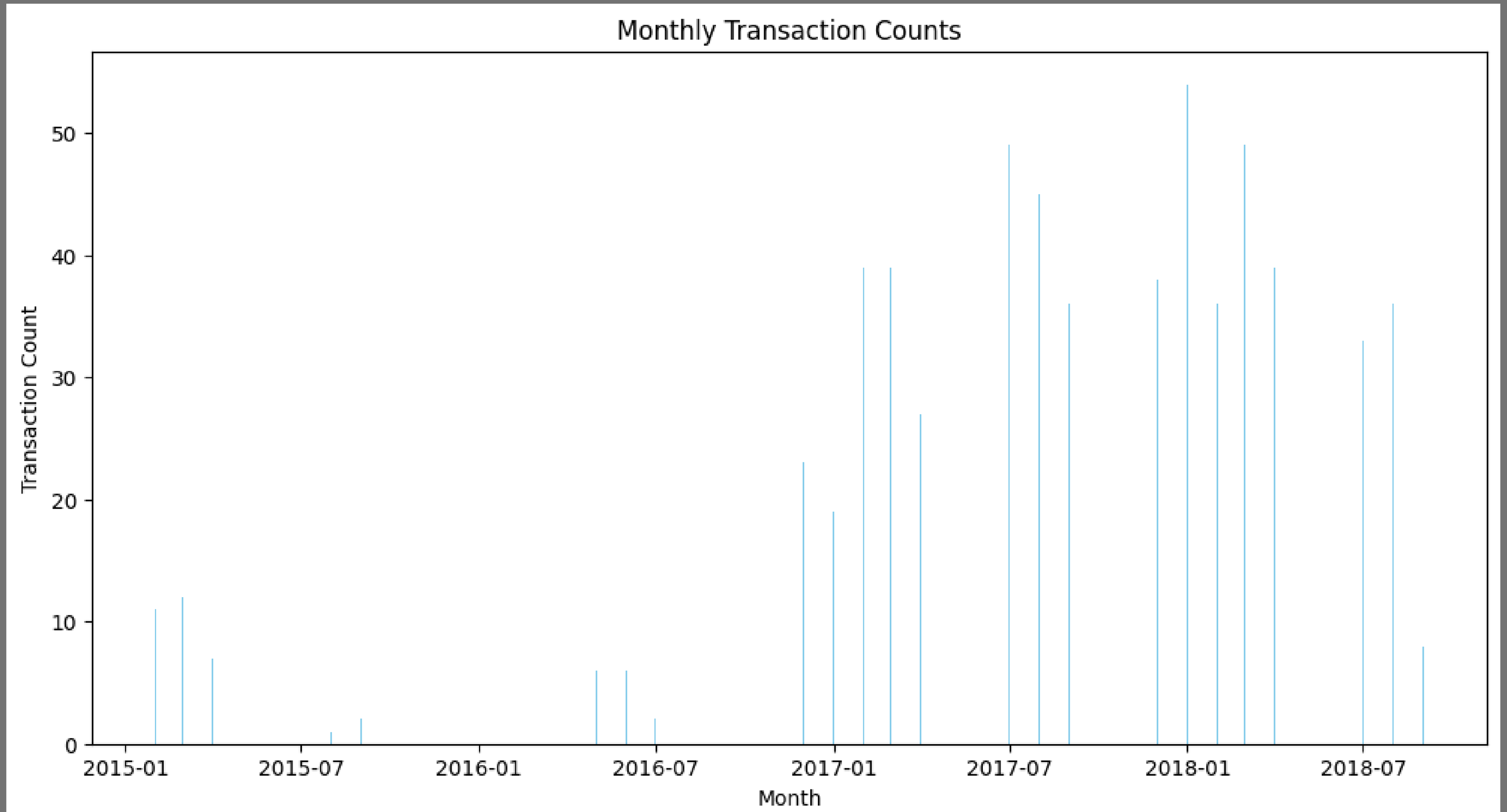

Daily Transaction Counts
Number of Transactions
Date
1
2
3
4
5
6
7
2015-01
2015-07
2016-01
2016-07
2017-01
2017-07
2018-01
2018-07

Trend Analysis: Monthly Transaction Amounts

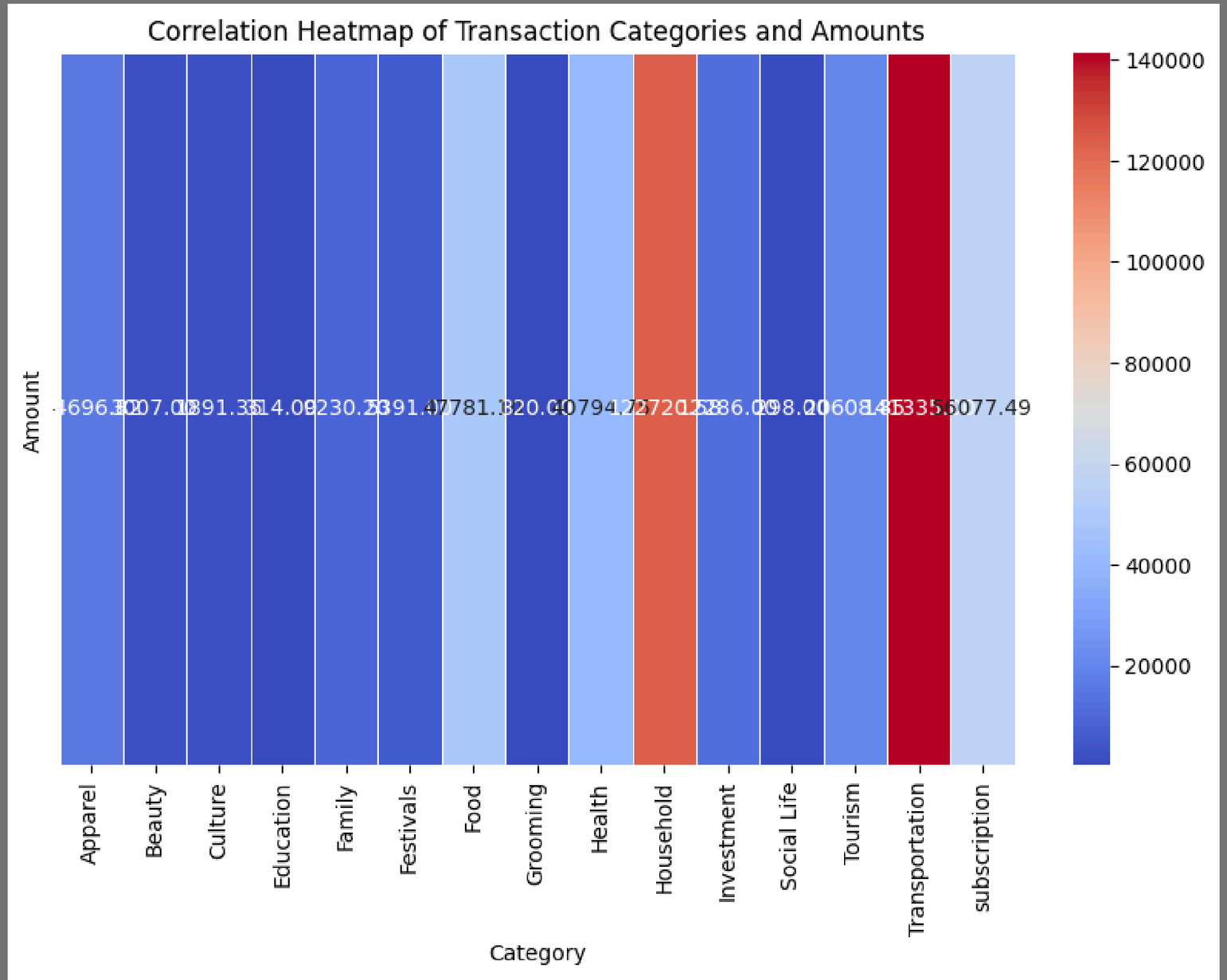


Trend Analysis: Daily Transaction Amounts

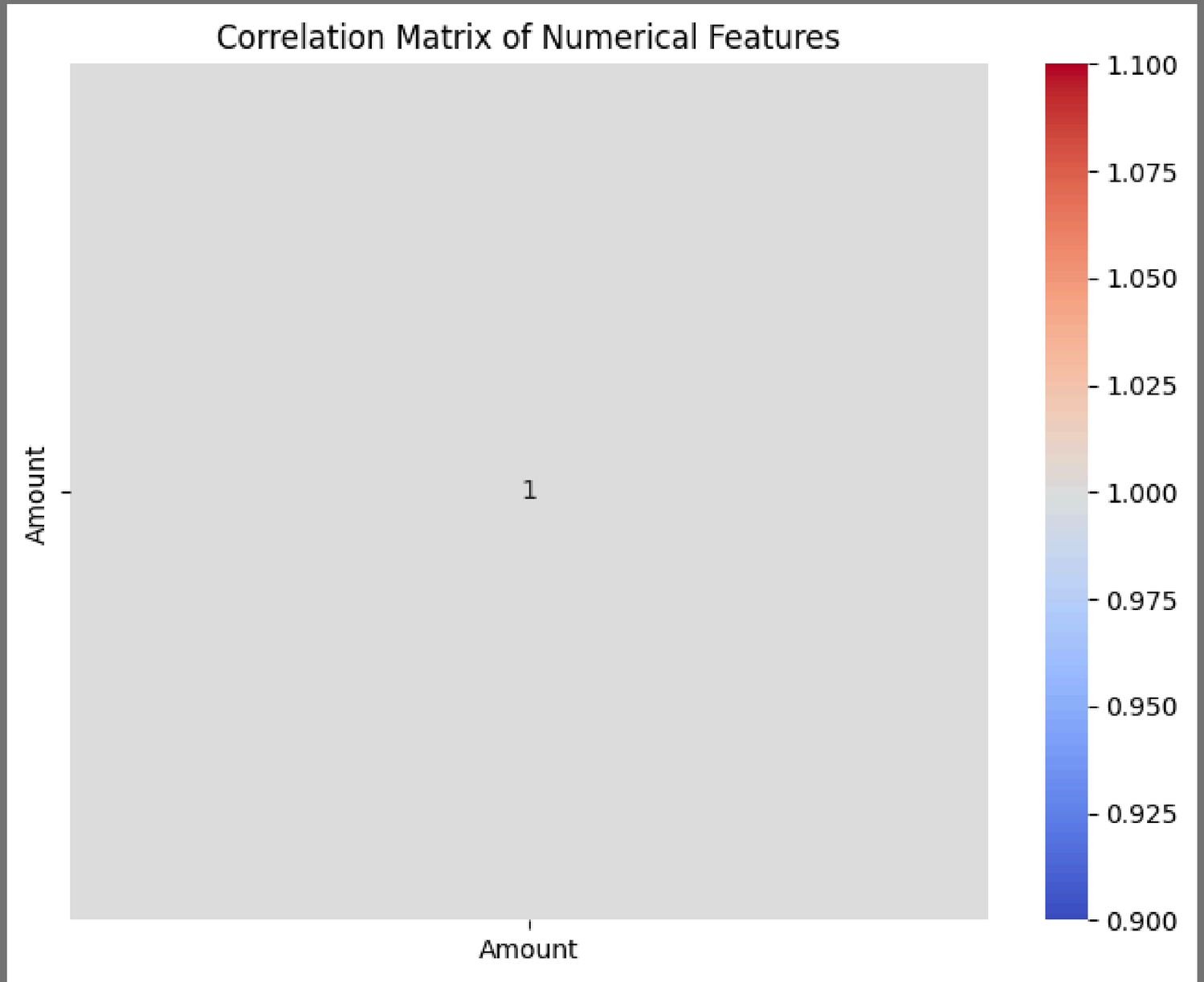


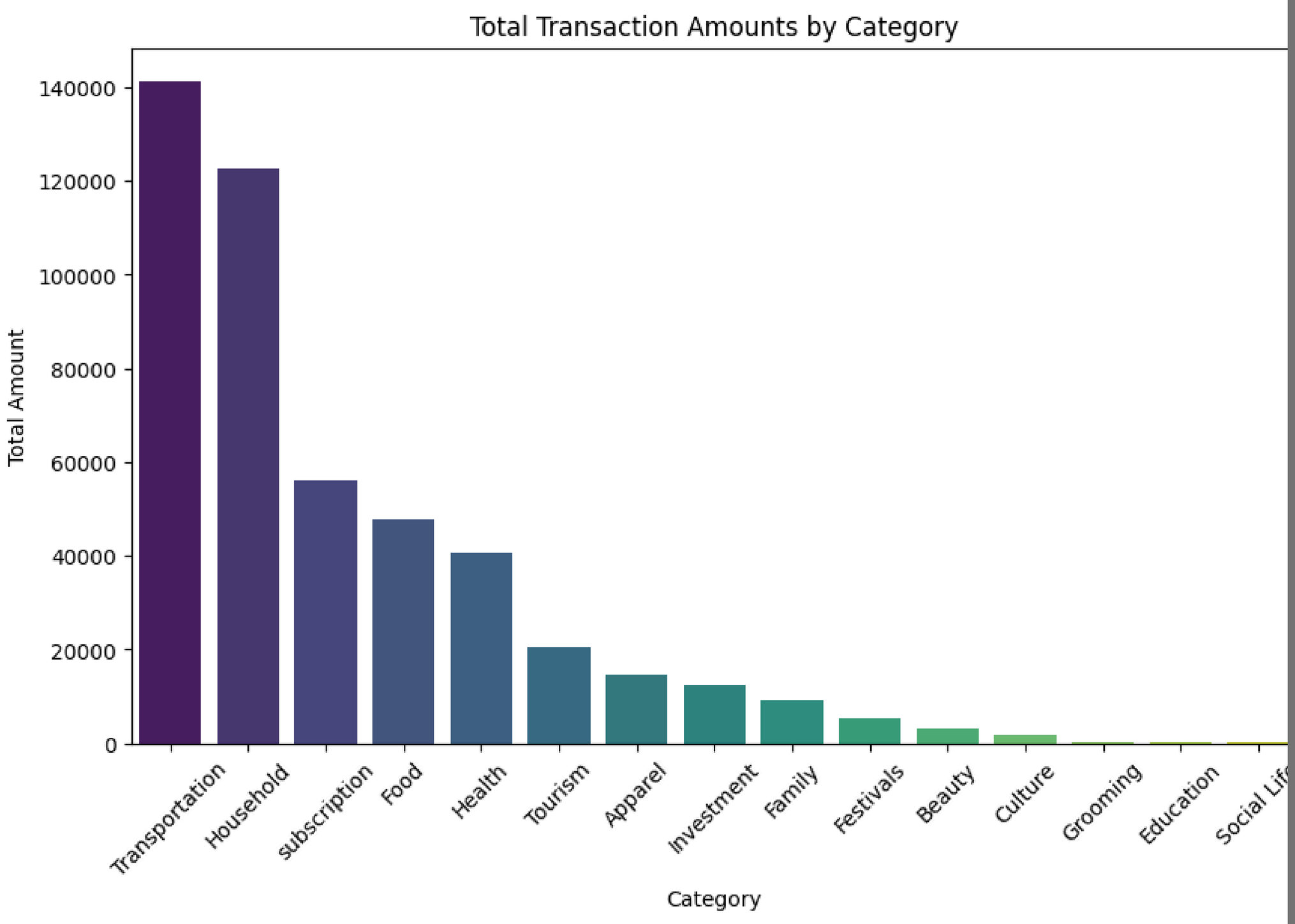

Monthly Transaction Counts
Transaction Count
0
10
20
30
40
50
2015-01
2015-07
2016-01
2016-07
2017-01
2017-07
2018-01
2018-07
Month

Visualization of correlation with a heatmap

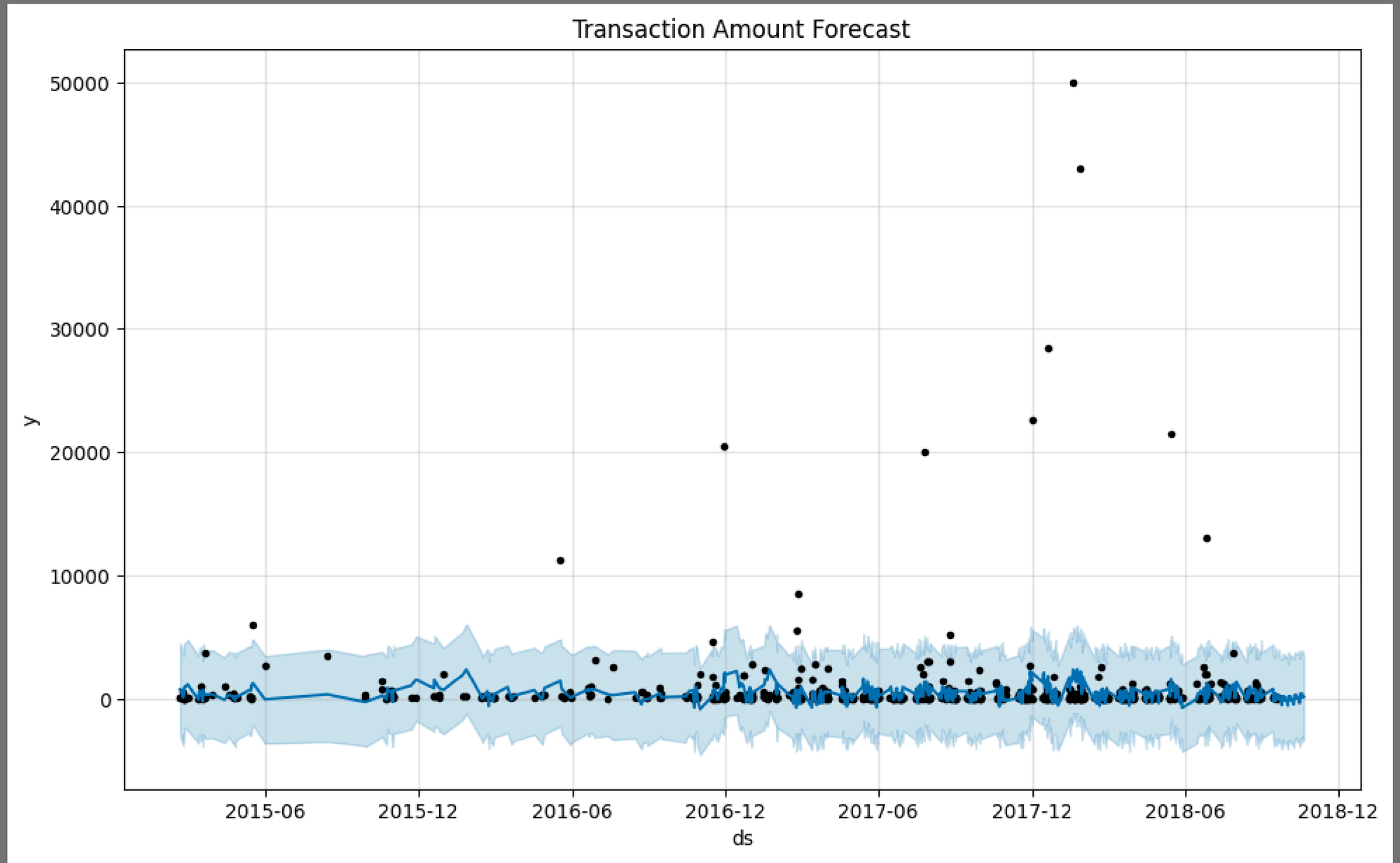


Correlation matrix if dataset has multiple numerical features

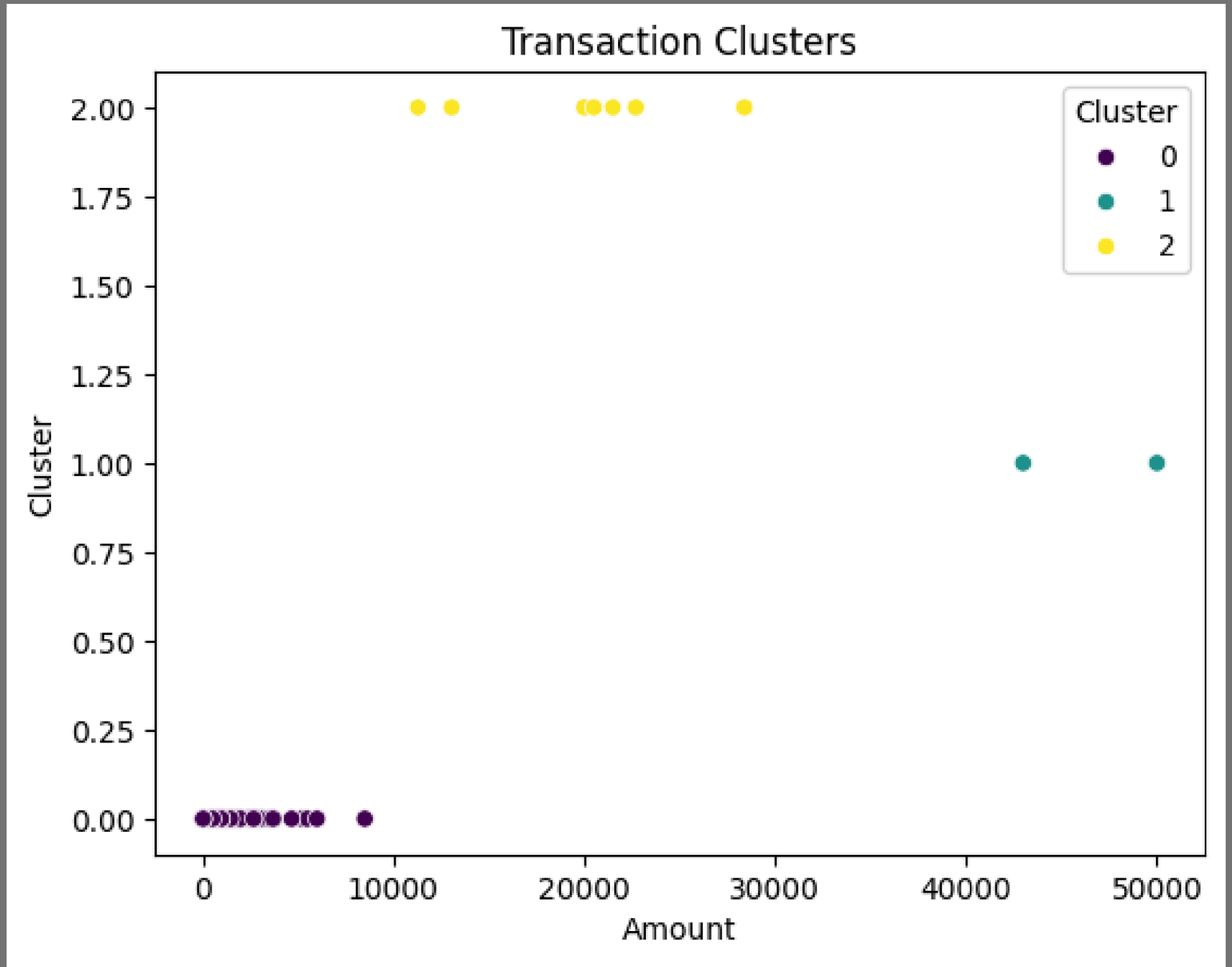



Total Transaction Amounts by Category
Total Amount
140000
120000
100000
80000
60000
40000
20000
0
Transportation
Household
subscription
Food
Health
Tourism
Apparel
Investment
Family
Festivals
Beauty
Culture
Grooming
Education
Social Life
Category

Seasonality and Forecasting



Clustering Analysis



Thank you

by
Shivam Anand